

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 15:58:47 ; Search time 124 Seconds
(without alignments)
40.654 Million cell updates/sec

Title: US-09-825-517A-151

Perfect score: 98
Sequence: 1 DWVCEFLKQWACNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/FCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	98	100.0	16	11	US-09-825-517A-49
2	98	100.0	16	11	US-09-825-517A-151
3	93	94.9	16	11	US-09-825-517A-125
4	93	94.9	16	11	US-09-825-517A-142
5	92	93.9	16	11	US-09-825-517A-112
6	92	93.9	16	11	US-09-825-517A-122
7	92	93.9	16	11	US-09-825-517A-140
8	90	91.8	16	11	US-09-825-517A-54
9	90	91.8	16	11	US-09-825-517A-138
10	90	91.8	16	11	US-09-825-517A-143
11	84	85.7	16	11	US-09-825-517A-80
12	84	85.7	16	11	US-09-825-517A-147
13	83	84.7	16	11	US-09-825-517A-75
14	83	84.7	16	11	US-09-825-517A-76
15	83	84.7	16	11	US-09-825-517A-135

16	83	84.7	16	11	US-09-825-517A-141	Sequence 141, App
17	81	82.7	16	11	US-09-825-517A-104	Sequence 104, App
18	81	82.7	16	11	US-09-825-517A-137	Sequence 137, App
19	80	81.6	16	11	US-09-825-517A-67	Sequence 67, App1
20	80	81.6	16	11	US-09-825-517A-101	Sequence 101, App
21	80	81.6	16	11	US-09-825-517A-106	Sequence 106, App
22	79	80.6	16	11	US-09-825-517A-86	Sequence 86, App1
23	79	80.6	16	11	US-09-825-517A-107	Sequence 107, App
24	79	80.6	16	11	US-09-825-517A-118	Sequence 118, App
25	79	80.6	16	11	US-09-825-517A-126	Sequence 126, App
26	79	80.6	16	11	US-09-825-517A-127	Sequence 127, App
27	79	80.6	16	11	US-09-825-517A-150	Sequence 150, App
28	78	79.6	16	11	US-09-825-517A-59	Sequence 59, App1
29	78	79.6	16	11	US-09-825-517A-139	Sequence 139, App
30	77	78.6	16	11	US-09-825-517A-78	Sequence 78, App1
31	77	78.6	16	11	US-09-825-517A-105	Sequence 105, App
32	77	78.6	16	11	US-09-825-517A-113	Sequence 113, App
33	76	77.6	16	11	US-09-825-517A-65	Sequence 65, App1
34	76	77.6	16	11	US-09-825-517A-82	Sequence 82, App1
35	76	77.6	16	11	US-09-825-517A-114	Sequence 114, App
36	76	77.6	16	11	US-09-825-517A-116	Sequence 116, App
37	76	77.6	16	11	US-09-825-517A-148	Sequence 148, App
38	75	76.5	16	11	US-09-825-517A-133	Sequence 133, App
39	75	76.5	16	11	US-09-825-517A-146	Sequence 146, App
40	74	75.5	16	11	US-09-825-517A-100	Sequence 100, App
41	74	75.5	16	11	US-09-825-517A-115	Sequence 115, App
42	74	75.5	16	11	US-09-825-517A-130	Sequence 130, App
43	74	75.5	16	11	US-09-825-517A-144	Sequence 144, App
44	72	73.5	16	11	US-09-825-517A-56	Sequence 56, App1
45	72	73.5	16	11	US-09-825-517A-88	Sequence 88, App1

ALIGNMENTS

RESULT 1

US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PPT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match 100.0%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 7.9e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16

Db 1 DWVCEFLKQWACNVL 16

RESULT 2

US-09-825-517A-151
; Sequence 151, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 151
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-151
```

```
Query Match 100.0%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 7.9e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEFLKQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEFLKQWACNVL 16
```

```
RESULT 3
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125
```

```
Query Match 94.9%; Score 93; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 4.4e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEFLKQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEFLKQWACNVL 16
```

```
RESULT 4
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142
```

```
Query Match 94.9%; Score 93; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 4.4e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEFLKQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEFLKQWACNVL 16
```

```
RESULT 5
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112
```

```
Query Match 93.9%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.2e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEFLKQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEFLKQWACNVL 16
```

```
RESULT 6
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
;
; FEATURE:
;   OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122
Query Match          93.9%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.2e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 7
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
;   OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140
Query Match          93.9%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.2e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 8
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
;   OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54
Query Match          91.8%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-06;
```

```
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 9
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
;   OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138
Query Match          91.8%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-06;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 10
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
;   OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143
Query Match          91.8%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-06;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 11
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
;   OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144
Query Match          91.8%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-06;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16
```

```

RESULT 11
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match      85.7%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.6e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
DB 1 DWVCEFLKQWACNVL 16

RESULT 12
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match      85.7%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.6e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
DB 1 DWVCEFLKQWACNVL 16

RESULT 13
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match      84.7%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.3e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
DB 1 DWVCEFLKQWACNVL 16

RESULT 14
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match      84.7%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
DB 1 DWVCEFLKQWACNVL 16

RESULT 15
US-09-825-517A-135
; Sequence 135, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```



```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 135
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-135

Query Match      84.7%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 DWVCEFLKMQWACNVL 16
      ||||| :|||
Db      1 DWVCEFDKLOWVCNVL 16

Search completed: September 8, 2004, 16:11:37
Job time : 125 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:32:04 ; Search time 32 Seconds
(without alignments)
25.813 Million cell updates/sec

Title: US-09-825-517A-151

Perfect score: 98

Sequence: 1 DWVCEFLKMQWACNVL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/ECTUS.COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	43.9	21	4	US-09-337-227C-27
2	43	43.9	21	4	US-09-723-251A-27
3	42	42.9	579	1	US-08-448-196A-8
4	41	41.8	382	4	US-09-252-991A-25095
5	40.5	41.3	413	4	US-09-491-577-72
6	40	40.8	20	1	US-08-484-135-78
7	40	40.8	20	1	US-08-484-635-40
8	40	40.8	20	2	US-08-484-631-40
9	40	40.8	20	2	US-08-827-570-40
10	40	40.8	23	1	US-08-484-635-56
11	40	40.8	23	2	US-08-484-631-56
12	40	40.8	23	2	US-08-827-570-56
13	39.5	40.3	551	3	US-09-194-145-2
14	39.5	40.3	551	6	5198359-2
15	39.5	40.3	551	6	549756-2
16	39.5	40.3	2972	4	US-08-463-260A-387
17	39.5	40.3	2972	4	US-08-488-446-387
18	39.5	40.3	2972	4	US-08-467-344A-387
19	39	39.8	26	1	US-08-484-635-90
20	39	39.8	26	2	US-08-484-631-90
21	39	39.8	26	2	US-08-827-570-90
22	39	39.8	128	4	US-09-252-991A-27977
23	39	39.8	399	1	US-08-414-926A-5
24	39	39.8	399	2	US-08-926-922-5
25	39	39.8	399	3	US-09-253-682-5
26	39	39.8	399	3	US-09-527-657-5
27	39	39.8	399	4	US-09-892-100-5

28 39 39.8 462 4 US-09-886-319A-72 Sequence 72, Appl
29 38 38.8 97 4 US-09-252-991A-24855 Sequence 24855, A
30 38 38.8 235 4 US-09-252-991A-16701 Sequence 16701, A
31 38 38.8 318 3 US-09-120-365-77 Sequence 77, Appl
32 38 38.8 318 3 US-09-515-039-77 Sequence 77, Appl
33 38 38.8 360 4 US-09-417-039-4 Sequence 4, Appl
34 38 38.8 415 3 US-09-100-193-2 Sequence 2, Appl
35 38 38.8 422 2 US-08-485-938A-34 Sequence 34, Appl
36 38 38.8 439 3 US-08-850-227-2 Sequence 2, Appl
37 38 38.8 439 3 US-09-054-985A-2 Sequence 2, Appl
38 38.8 451 4 US-09-086-663A-83 Sequence 83, Appl
39 38 38.8 463 1 US-08-426-428-2 Sequence 2, Appl
40 38 38.8 463 3 US-08-850-227-4 Sequence 4, Appl
41 38 38.8 463 3 US-09-054-985A-4 Sequence 4, Appl
42 38 38.8 463 3 US-08-871-314-2 Sequence 2, Appl
43 38 38.8 463 4 US-09-886-319A-73 Sequence 73, Appl
44 38 38.8 480 3 US-09-100-193-1 Sequence 1, Appl
45 38 38.8 513 3 US-09-100-193-3 Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 43.9%; Score 43; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 1.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEFLKMQWAC 13
||| :|||
Db 3 WVCRAGPLQWLC 14

RESULT 2
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES

; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 43.9%; Score 43; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 1.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEFLKMQWAC 13
||| :|||
DB 3 WVCAGPLQWLC 14

RESULT 3
US-08-448-196A-8
; Sequence 8, Application US/08448196A
; Patent No. 5780594
; GENERAL INFORMATION:

; APPLICANT: CARTER, DANIEL C.
; TITLE OF INVENTION: BIOLOGICALLY ACTIVE PROTEIN FRAGMENTS
; TITLE OF INVENTION: CONTAINING SPECIFIC BINDING REGIONS OF SERUM ALBUMIN OR
; TITLE OF INVENTION: RELATED PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: NASA
; STREET: MARSHALL SPACE FLIGHT CENTER
; CITY: HUNTSVILLE
; STATE: ALABAMA
; COUNTRY: USA
; ZIP: 35812

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/448,196A
; FILING DATE: 23-MAY-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: BROAD JR., ROBERT L.
; REGISTRATION NUMBER: 18,757
; REFERENCE/DOCKET NUMBER: XX/MFS-28402-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 205-544-0021
; TELEFAX: 205-544-0258

; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 579 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
US-08-448-196A-8

Query Match 42.9%; Score 42; DB 1; Length 579;
Best Local Similarity 53.8%; Pred. No. 72;
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEFLKMQWAC 13
:|:|||||
DB 541 EWLEFLKXVQKC 553

RESULT 4

US-09-252-991A-25095
; Sequence 25095, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 25095
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25095

Query Match 41.8%; Score 41; DB 4; Length 382;
Best Local Similarity 42.9%; Pred. No. 67;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWVCEFLKMQWACN 14
|||:|:|:|
DB 234 DMLCKKLSYQTGCS 247

RESULT 5

US-09-491-577-72
; Sequence 72, Application US/09491577
; Patent No. 6610511
; GENERAL INFORMATION:
; APPLICANT: Yale University
; APPLICANT: Carlson, John R.
; APPLICANT: Kim, Hunhyong
; APPLICANT: Clyne, Peter J.
; APPLICANT: Warr, Coral G.
; TITLE OF INVENTION: No. 6610511el Family of Odorant Receptor Genes in Drosophila
; FILE REFERENCE: 44574-5061-US
; CURRENT APPLICATION NUMBER: US/09/491,577
; CURRENT FILING DATE: 2000-01-25
; EARLIER APPLICATION NUMBER: US 60/117,132
; EARLIER FILING DATE: 1999-01-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 72
; LENGTH: 413
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-491-577-72

Query Match 41.3%; Score 40.5; DB 4; Length 413;
Best Local Similarity 58.3%; Pred. No. 88;
Matches 7; Conservative 1; Mismatches 3; Indels 1; Gaps 1;

QY 2 WVCEFLKMQWAC 13
:|:|||||
DB 192 WLEFLMNWTC 202

RESULT 6

US-08-484-135-78
; Sequence 78, Application US/08484135

```
; Patent No. 5767078
; GENERAL INFORMATION:
; APPLICANT: Johnson, Dana L
; APPLICANT: Zivin, Robert A
; TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Frank S. DiGiglio
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: U.S.A..
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,135
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DiGiglio, Frank S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9594
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-135-78

Query Match 40.8%; Score 40; DB 1; Length 20;
Best Local Similarity 46.2%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWCEFLKQWAC 13
|:|:|:|:|:|
Db 3 DYVCRMGPMTWVC 15

RESULT 7
US-08-484-635-40
; Sequence 40, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
```

```
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-635-40

Query Match 40.8%; Score 40; DB 1; Length 20;
Best Local Similarity 46.2%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWCEFLKQWAC 13
|:|:|:|:|:|
Db 3 DYVCRMGPMTWVC 15

RESULT 8
US-08-484-631-40
; Sequence 40, Application US/08484631
; Patent No. 5830851
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
```

; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-631-40

Query Match 40.8%; Score 40; DB 2; Length 20;
Best Local Similarity 46.2%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWAC 13
|:|:|:|:|:|:|
Db 3 DYVCRMGPMTWVC 15

RESULT 9
US-08-827-570-40
; Sequence 40, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,570
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: 16528A-43-1-1
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-827-570-40

Query Match 40.8%; Score 40; DB 2; Length 20;
Best Local Similarity 46.2%; Pred. No. 4.4;

Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
QY 1 DWVCEFLKQWAC 13
|:|:|:|:|:|:|
Db 3 DYVCRMGPMTWVC 15

RESULT 10
US-08-484-635-56
; Sequence 56, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-635-56

Query Match 40.8%; Score 40; DB 1; Length 23;
Best Local Similarity 46.2%; Pred. No. 5.1;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWAC 13
|:|:|:|:|:|:|
Db 3 DYVCRMGPMTWVC 15

RESULT 11
US-08-484-631-56
; Sequence 56, Application US/08484631
; Patent No. 5830851
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.

```

; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-631-56

Query Match 40.8%; Score 40; DB 2; Length 23;
Best Local Similarity 46.2%; Pred. No. 5.1;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWCEFLKMQWAC 13
Db 3 DYVCRMGPMTWVC 15

RESULT 12
US-09-827-570-56
; Sequence 56, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
```

```

; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,570
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-827-570-56

Query Match 40.8%; Score 40; DB 2; Length 23;
Best Local Similarity 46.2%; Pred. No. 5.1;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWCEFLKMQWAC 13
Db 3 DYVCRMGPMTWVC 15

RESULT 13
US-09-194-145-2
; Sequence 2, Application US/09194145
; Patent No. 6281193
; GENERAL INFORMATION:
; APPLICANT: STROM, Terry
; APPLICANT: MASLINSKI, Wlodzimierz
; TITLE OF INVENTION: COMPOUNDS THAT INHIBIT THE BINDING OF RAF-1 OR 14-3-3
; TITLE OF INVENTION: PROTEINS TO THE BETA CHAIN OF IL-2 RECEPTOR, AND
; TITLE OF INVENTION: PHARMACEUTICAL COMPOSITIONS CONTAINING SAME
; FILE REFERENCE: STROM=1A
; CURRENT APPLICATION NUMBER: US/09/194,145
; CURRENT FILING DATE: 1999-03-08
; EARLIER APPLICATION NUMBER: PCT/US97/08542
; EARLIER FILING DATE: 1997-05-22
; EARLIER APPLICATION NUMBER: 60/018,183
; EARLIER FILING DATE: 1996-05-23
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 551
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-194-145-2

Query Match 40.3%; Score 39.5; DB 3; Length 551;
Best Local Similarity 43.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 3; Gaps 1;

Qy 4 CEFL---KMQWACNVL 16
Db 74 CELLPVQSQAWACNLI 89
```

RESULT 14
5198359-2
; Patent No. 5198359
; APPLICANT: TANIGUCHI, TADATSUGU; HATAKEYAMA, MASANORI;
; MINAMOTO, SEIJIRO; KONO, TAKESHI; DOI, TAKESHI; MIYASAKA, MASAYUKI;
; TSUDO, MITSURU; KARASUYAMA, HAJIME
; TITLE OF INVENTION: RECOMBINANT PROTEIN RECEPTOR FOR IL-2
; NUMBER OF SEQUENCES: 9
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/487,059
; FILING DATE: 05-MAR-1990
; SEQ ID NO: 2:
; LENGTH: 551
5198359-2

Query Match 40.3%; Score 39.5; DB 6; Length 551;
Best Local Similarity 43.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 3; Gaps 1;
QY 4 CEFL---KMQWACNVL 16
||| : ||| :
Db 74 CELLPVSOASWACNLI 89

RESULT 15
5449756-2
; Patent No. 5449756
; APPLICANT: TANIGUCHI, TADATSUGU; HATAKEYAMA, MASANORI; MINAMOTO,
; SEIJIRO; KONO, TAKESHI; DOI, TAKESHI; MIYASAKA, MASAYUKI; TSUDO,
; MITSURU; KARASUYAMA, HAJIME
; TITLE OF INVENTION: RECOMBINANT PROTEIN RECEPTOR FOR IL-2
; NUMBER OF SEQUENCES: 12
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/88,592
; FILING DATE: 9-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 865,155
; FILING DATE: 08-APR-1992
; APPLICATION NUMBER: 487,059
; FILING DATE: 05-MAR-1990
; SEQ ID NO: 2:
; LENGTH: 551
5449756-2

Query Match 40.3%; Score 39.5; DB 6; Length 551;
Best Local Similarity 43.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 3; Gaps 1;
QY 4 CEFL---KMQWACNVL 16
||| : ||| :
Db 74 CELLPVSOASWACNLI 89

Search completed: September 8, 2004, 16:01:14
Job time : 32 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-150

Perfect score: 103

Sequence: 1 DWCEFFKQWFCNIL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	16	11	US-09-825-517A-150
2	96	93.2	16	11	US-09-825-517A-75
3	94	91.3	16	11	US-09-825-517A-59
4	94	91.3	16	11	US-09-825-517A-76
5	94	91.3	16	11	US-09-825-517A-86
6	94	91.3	16	11	US-09-825-517A-137
7	90	87.4	16	11	US-09-825-517A-100
8	90	87.4	16	11	US-09-825-517A-104
9	90	87.4	16	11	US-09-825-517A-147
10	89	86.4	16	11	US-09-825-517A-139
11	87	84.5	16	11	US-09-825-517A-130
12	86	83.5	16	11	US-09-825-517A-128
13	85	82.5	16	11	US-09-825-517A-67
14	85	82.5	16	11	US-09-825-517A-80
15	85	82.5	16	11	US-09-825-517A-105

16	85	82.5	16	11	US-09-825-517A-109	Sequence 109, App
17	85	82.5	16	11	US-09-825-517A-127	Sequence 127, App
18	84	81.6	16	11	US-09-825-517A-50	Sequence 50, Appl
19	84	81.6	16	11	US-09-825-517A-56	Sequence 56, Appl
20	84	81.6	16	11	US-09-825-517A-68	Sequence 68, Appl
21	83	80.6	16	11	US-09-825-517A-78	Sequence 78, Appl
22	83	80.6	16	11	US-09-825-517A-82	Sequence 82, Appl
23	83	80.6	16	11	US-09-825-517A-115	Sequence 115, App
24	83	80.6	16	11	US-09-825-517A-123	Sequence 123, App
25	82	79.6	16	11	US-09-825-517A-119	Sequence 119, App
26	81	78.6	16	11	US-09-825-517A-52	Sequence 52, Appl
27	81	77.6	16	11	US-09-825-517A-126	Sequence 126, App
28	80	77.7	16	11	US-09-825-517A-146	Sequence 146, App
29	80	77.7	16	11	US-09-825-517A-148	Sequence 148, App
30	79	76.7	16	11	US-09-825-517A-42	Sequence 42, Appl
31	79	76.7	16	11	US-09-825-517A-49	Sequence 49, Appl
32	79	76.7	16	11	US-09-825-517A-61	Sequence 61, Appl
33	79	76.7	16	11	US-09-825-517A-65	Sequence 65, Appl
34	79	76.7	16	11	US-09-825-517A-129	Sequence 129, App
35	79	76.7	16	11	US-09-825-517A-151	Sequence 151, App
36	78	75.7	16	11	US-09-825-517A-38	Sequence 38, Appl
37	78	75.7	16	11	US-09-825-517A-71	Sequence 71, Appl
38	78	75.7	16	11	US-09-825-517A-108	Sequence 108, App
39	78	75.7	16	11	US-09-825-517A-118	Sequence 118, App
40	78	75.7	16	11	US-09-825-517A-124	Sequence 124, App
41	78	75.7	16	11	US-09-825-517A-133	Sequence 133, App
42	78	75.7	16	11	US-09-825-517A-141	Sequence 141, App
43	77	74.8	16	11	US-09-825-517A-45	Sequence 45, Appl
44	77	74.8	16	11	US-09-825-517A-55	Sequence 55, Appl
45	77	74.8	16	11	US-09-825-517A-58	Sequence 58, Appl

ALIGNMENTS

RESULT 1
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 7.8e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qv 1 DWCEFFKQWFCNIL 16
|||||
Db 1 DWCEFFKQWFCNIL 16

RESULT 2
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 7.6e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 3
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.4e-06;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 4
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.4e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 5
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.4e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 6
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT

```

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.4e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
   ||||| |||||
Db 1 DWCEFFKQWFCNIL 16

RESULT 7
US-09-825-517A-100
; Sequence 100, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 100
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-100

Query Match          87.4%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.3e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
   ||||| |||||
Db 1 DWCELFKQWFCNIL 16

RESULT 8
US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

Query Match          87.4%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.3e-06;

```

```

Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
   ||||| |||||
Db 1 DWCEFFKQWFCNIL 16

RESULT 9
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match          87.4%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.3e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
   ||||| |||||
Db 1 DWCEFIKQWFCNVL 16

RESULT 10
US-09-825-517A-139
; Sequence 139, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 139
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-139

Query Match          86.4%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.3e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
   ||||| |||||
Db 1 DWCEYFKQWLCNIL 16

```

RESULT 11
 US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; PRIOR FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-130

Query Match 84.5%; Score 87; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 1.4e-05;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNLL 16
 |||||:|||||:
 DB 1 DWVCEWFKQWFCNML 16

RESULT 12
 US-09-825-517A-128
 ; Sequence 128, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 128
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-128

Query Match 83.5%; Score 86; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 1.9e-05;
 Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNLL 16
 |||||:|||||:
 DB 1 DWVCNLFKNQWFCNVL 16

RESULT 13
 US-09-825-517A-67
 ; Sequence 67, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 67
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-67

Query Match 82.5%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 2.7e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNLL 16
 |||||:|||||:
 DB 1 DWCEFYKQWNCNLL 16

RESULT 14
 US-09-825-517A-80
 ; Sequence 80, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 80
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-80

Query Match 82.5%; Score 85; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 2.7e-05;
 Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNLL 16
 |||||:|||||:
 DB 1 DWCEFIKNQWNCNVL 16

RESULT 15
 US-09-825-517A-105
 ; Sequence 105, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-105
```

```
Query Match      82.5%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.7e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
Cy      1 DWVCEFFKQWFCNLL 16
         |||||:|||||
Db      1 DWVCEYFKSQWMCNML 16
```

```
Search completed: September 8, 2004, 15:58:39
Job time : 43.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-150
Perfect score: 103
Sequence: 1 DWCEFFKQWFCNIL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A-COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B-COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A-COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B-COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS-COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	43.7	480	2	US-08-828-488-8
2	45	43.7	480	4	US-09-299-689A-8
3	45	43.7	480	4	US-09-702-705-336
4	45	43.7	480	4	US-09-736-457-336
5	45	43.7	480	4	US-09-614-124B-336
6	45	43.7	480	4	US-09-671-325-336
7	45	43.7	480	4	US-09-589-184-336
8	42	40.8	56	1	US-08-328-256-9
9	42	40.8	478	4	US-09-137-223A-2
10	42	40.8	496	1	US-08-328-256-12
11	41	39.8	24	1	US-08-484-635-86
12	41	39.8	24	2	US-08-484-631-86
13	41	39.8	24	2	US-08-827-570-86
14	41	39.8	701	3	US-09-087-727-2
15	41	39.8	701	4	US-09-853-053-2
16	40	38.8	231	3	US-08-448-489-19
17	40	38.8	604	4	US-09-391-104-30
18	40	38.8	604	4	US-09-820-809-13
19	40	38.8	607	3	US-09-000-041A-2
20	40	38.8	607	3	US-09-211-704A-10
21	40	38.8	912	3	US-08-617-785-2
22	40	38.8	912	4	US-09-641-318-2
23	40	38.8	912	4	US-09-817-464-2
24	40	38.8	912	5	PCT-US91-09422-19
25	39.5	38.3	286	4	US-09-328-352-5022
26	39	37.9	20	2	US-07-894-063A-6
27	39	37.9	21	4	US-09-337-227C-27

Sequence 27, Appl
Sequence 16, Appl
Sequence 95, Appl
Sequence 96, Appl
Sequence 24, Appl
Sequence 9, Appl
Sequence 9, Appl
Sequence 28, Appl
Sequence 6740, Ap
Sequence 6959, Ap
Sequence 4, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 6, Appli
Sequence 6, Appli

28 39 37.9 21 4 US-09-723-251A-27
29 39 37.9 30 1 US-08-262-037-16
30 39 37.9 38 1 US-08-262-037-95
31 39 37.9 47 1 US-08-262-037-96
32 39 37.9 106 3 US-08-444-818-24
33 39 37.9 153 1 US-07-695-564-9
34 39 37.9 153 1 US-08-241-387-9
35 39 37.9 176 3 US-08-444-818-28
36 39 37.9 222 4 US-09-328-352-6740
37 39 37.9 272 4 US-09-328-352-6959
38 39 37.9 360 4 US-08-850-328-4
39 39 37.9 399 1 US-08-414-926A-5
40 39 37.9 399 2 US-08-926-922-5
41 39 37.9 399 3 US-09-253-682-5
42 39 37.9 399 3 US-09-527-657-5
43 39 37.9 399 4 US-09-892-100-5
44 39 37.9 516 3 US-08-867-611-6
45 39 37.9 516 4 US-09-690-359-6

ALIGNMENTS

RESULT 1
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-08-828-488-8

Query Match

43.7%; Score 45; DB 2; Length 480;

Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 0; Gaps 0; Indels 7; Mismatches 0;

QY 1 DWVCEFFKQWFCNIL 16
| | | | | : | | | |
DB 400 DMACNFMGDEWFDVSL 415

RESULT 2

US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304

COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A

; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J.

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0241 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-855-0555

; TELEFAX: 415-845-4166

; INFORMATION FOR SEQ ID NO: 8:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 480 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: GenBank

; CLONE: 190283

US-09-299-689A-8

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 0; Gaps 0; Indels 7;

QY 1 DWVCEFFKQWFCNIL 16
| | | | | : | | | |
DB 400 DMACNFMGDEWFDVSL 415

RESULT 3

US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 0; Gaps 0; Indels 7;

QY 1 DWVCEFFKQWFCNIL 16
| | | | | : | | | |
DB 400 DMACNFMGDEWFDVSL 415

RESULT 4

US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Lodes, Michael A.

; APPLICANT: Fanger, Gary

; APPLICANT: Vedvick, Tom

; APPLICANT: Carter, Darrick

; APPLICANT: Retter, Marc

; APPLICANT: Mannion, Jane

; APPLICANT: Fan, Liqun

; APPLICANT: Wang, Aijun

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER

; FILE REFERENCE: 210121.478C15

; CURRENT APPLICATION NUMBER: US/09/736,457

; CURRENT FILING DATE: 2000-12-13

; NUMBER OF SEQ ID NOS: 1864

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 336

; LENGTH: 480

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-736-457-336

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 0; Gaps 0; Indels 7;

QY 1 DWVCEFFKQWFCNIL 16
| | | | | : | | | |
DB 400 DMACNFMGDEWFDVSL 415

RESULT 5

US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darriack
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNIL 16
Db 400 DMACNFMGDEWFDLSL 415

RESULT 6
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darriack
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNIL 16
Db 400 DMACNFMGDEWFDLSL 415

RESULT 7
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary

; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darriack
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589,184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNIL 16
Db 400 DMACNFMGDEWFDLSL 415

RESULT 8
US-08-328-256-9
; Sequence 9, Application US/08328256
; Patent No. 5643749
; GENERAL INFORMATION:
; APPLICANT: REVEL, Michel
; APPLICANT: ABRAMOVICH, Carolina
; APPLICANT: RATOVITSKI, Edward
; TITLE OF INVENTION: SOLUBLE INTERFERON ALPHA-RECEPTOR, ITS
; TITLE OF INVENTION: PREPARATION AND USE
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/328,256
; FILING DATE: 24-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 107378
; FILING DATE: 24-OCT-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: REVEL=13
; REFERENCE/DOCKET NUMBER: 25,618
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 56 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-328-256-9

Query Match 40.8%; Score 42; DB 1; Length 56;
Best Local Similarity 50.0%; Pred. No. 14;

Matches 8; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNLL 16
| | | | : | : | : |
Db 18 DAVCEYFSEQPLKNLL 33

RESULT 9

US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match 40.8%; Score 42; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 1.2e+02;
Matches 5; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEFFKQW 12
: | : | | |
Db 322 EWLSSVYKQWF 333

RESULT 10

US-08-328-256-12
; Sequence 12, Application US/08328256
; Patent No. 5643749
; GENERAL INFORMATION:
; APPLICANT: REVEL, Michel
; APPLICANT: ABRAMOVICH, Carolina
; APPLICANT: RATOVITSKI, Edward
; TITLE OF INVENTION: SOLUBLE INTERFERON ALPHA-RECEPTOR, ITS
; PREPARATION AND USE
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/328,256
; FILING DATE: 24-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 107378
; FILING DATE: 24-OCT-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, ROGER L.
; REGISTRATION NUMBER: REVEL=13
; REFERENCE/DOCKET NUMBER: 25,618
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197

; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 496 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-328-256-12

Query Match 40.8%; Score 42; DB 1; Length 496;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 8; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNLL 16
| | | | : | : | : |
Db 415 DAVCEYFSEQPLKNLL 430

RESULT 11

US-08-484-635-86
; Sequence 86, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-635-86

Query Match 39.8%; Score 41; DB 1; Length 24;
Best Local Similarity 38.5%; Pred. No. 8.4;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

```

QY      1 DWVCEFFKQWFC 13
Db      10 EYVCQWGPDTWLC 22

RESULT 12
US-08-484-631-86
; Sequence 86, Application US/08484631
; Patent No. 5830851
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; STRANDEDNESS:
; APPLICATION TYPE: peptide
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 86:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-631-86

Query Match      39.8%; Score 41; DB 2; Length 24;
Best Local Similarity 38.5%; Pred. No. 8.4;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWVCEFFKQWFC 13
Db      10 EYVCQWGPDTWLC 22

RESULT 13
US-08-827-570-86
; Sequence 86, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.

```

```

; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-827-570-86

Query Match      39.8%; Score 41; DB 2; Length 24;
Best Local Similarity 38.5%; Pred. No. 8.4;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWVCEFFKQWFC 13
Db      10 EYVCQWGPDTWLC 22

RESULT 14
US-09-087-727-2
; Sequence 2, Application US/09087727A
; Patent No. 6103496
; GENERAL INFORMATION:
; APPLICANT: Brash, Alan R.
; APPLICANT: Boeglin, William E.
; APPLICANT: Kim, Richard B.
; TITLE OF INVENTION: Isolated and Purified 12R-Lipoxygenase Protein and
; FILE REFERENCE: Attorney Docket No. 6103496 1242-7
; CURRENT APPLICATION NUMBER: US/09/087,727A
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 701
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-087-727-2

```

Query Match 39.8%; Score 41; DB 3; Length 701;
Best Local Similarity 66.7%; Pred. No. 2.5e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 6 PFKDQWFCN 14
| | | | |
Db 77 PPKDPWYCN 85

RESULT 15
US-09-853-053-2
; Sequence 2, Application US/09853053
; Patent No. 6569644
; GENERAL INFORMATION:
; APPLICANT: Brash, Alan
; APPLICANT: Boeglin, William
; APPLICANT: Kim, Richard
; TITLE OF INVENTION: ISOLATED AND PURIFIED 12R-LIPOXYGENASE PROTEIN AND NUCLEIC ACIDS
; FILE REFERENCE: Attorney Docket No. 6569644 1242/7/2
; CURRENT APPLICATION NUMBER: US/09/853,053
; CURRENT FILING DATE: 2001-05-11
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 701
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-853-053-2

Query Match 39.8%; Score 41; DB 4; Length 701;
Best Local Similarity 66.7%; Pred. No. 2.5e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 6 PFKDQWFCN 14
| | | | |
Db 77 PPKDPWYCN 85

Search completed: September 8, 2004, 14:31:55
Job time : 13.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-149

Perfect score: 100
Sequence: 1 DWVCEIVKNQWICNPL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	100	100.0	16	11	US-09-825-517A-149
2	92	92.0	16	11	US-09-825-517A-93
3	85	85.0	16	11	US-09-825-517A-91
4	84	84.0	16	11	US-09-825-517A-78
5	84	84.0	16	11	US-09-825-517A-95
6	84	84.0	16	11	US-09-825-517A-113
7	84	84.0	16	11	US-09-825-517A-116
8	83	83.0	16	11	US-09-825-517A-80
9	82	82.0	16	11	US-09-825-517A-60
10	82	82.0	16	11	US-09-825-517A-127
11	81	81.0	16	11	US-09-825-517A-127
12	80	80.0	16	11	US-09-825-517A-61
13	78	78.0	16	11	US-09-825-517A-139
14	77	77.0	16	11	US-09-825-517A-59
15	77	77.0	16	11	US-09-825-517A-92

16	77	77.0	16	11	US-09-825-517A-147	Sequence 147, App
17	76	76.0	16	11	US-09-825-517A-68	Sequence 68, Appl
18	76	76.0	16	11	US-09-825-517A-114	Sequence 114, App
19	75	75.0	16	11	US-09-825-517A-65	Sequence 65, Appl
20	75	75.0	16	11	US-09-825-517A-128	Sequence 128, App
21	74	74.0	16	11	US-09-825-517A-126	Sequence 126, App
22	73	73.0	16	11	US-09-825-517A-50	Sequence 50, Appl
23	73	73.0	16	11	US-09-825-517A-105	Sequence 105, App
24	73	73.0	16	11	US-09-825-517A-109	Sequence 109, App
25	73	73.0	16	11	US-09-825-517A-119	Sequence 119, App
26	73	73.0	16	11	US-09-825-517A-146	Sequence 146, App
27	73	73.0	16	11	US-09-825-517A-148	Sequence 148, App
28	72	72.0	16	11	US-09-825-517A-56	Sequence 56, Appl
29	72	72.0	16	11	US-09-825-517A-71	Sequence 71, Appl
30	72	72.0	16	11	US-09-825-517A-75	Sequence 75, Appl
31	72	72.0	16	11	US-09-825-517A-85	Sequence 85, Appl
32	72	72.0	16	11	US-09-825-517A-107	Sequence 107, App
33	72	72.0	16	11	US-09-825-517A-108	Sequence 108, App
34	72	72.0	16	11	US-09-825-517A-150	Sequence 150, App
35	71	71.0	16	11	US-09-825-517A-49	Sequence 49, Appl
36	71	71.0	16	11	US-09-825-517A-76	Sequence 76, Appl
37	71	71.0	16	11	US-09-825-517A-77	Sequence 77, Appl
38	71	71.0	16	11	US-09-825-517A-81	Sequence 81, Appl
39	71	71.0	16	11	US-09-825-517A-83	Sequence 83, Appl
40	71	71.0	16	11	US-09-825-517A-86	Sequence 86, Appl
41	71	71.0	16	11	US-09-825-517A-100	Sequence 100, App
42	71	71.0	16	11	US-09-825-517A-137	Sequence 137, App
43	71	71.0	16	11	US-09-825-517A-151	Sequence 151, App
44	70	70.0	16	11	US-09-825-517A-52	Sequence 52, Appl
45	70	70.0	16	11	US-09-825-517A-104	Sequence 104, App

ALIGNMENTS

RESULT 1

US-09-825-517A-149
; Sequence 149, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 149
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-149

Query Match 100.0%; Score 100; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEIVKNQWICNPL 16

Db 1 DWVCEIVKNQWICNPL 16

RESULT 2

US-09-825-517A-93
; Sequence 93, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 93
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-93

Query Match      92.0%; Score 92; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 1.8e-06;
Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWVCNPL 16
   |||||:|:|:|
Db 1 DWVCEIVKQWVCNPL 16

RESULT 3
US-09-825-517A-91
; Sequence 91, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-91

Query Match      85.0%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 1.8e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWVCNPL 16
   |||||:|:|:|
Db 1 DWVCEIVKQWVCNPL 16

RESULT 4
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match      84.0%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.5e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWVCNPL 16
   |||||:|:|:|
Db 1 DWVCEIVKQWVCNPL 16

RESULT 5
US-09-825-517A-95
; Sequence 95, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-95

Query Match      84.0%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.5e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWVCNPL 16
   |||||:|:|:|
Db 1 DWVCEIVKQWVCNPL 16

RESULT 6
US-09-825-517A-113
; Sequence 113, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 113
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-113

Query Match      84.0%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.5e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWMCNPL 16
Db 1 DWVCEIVKQWMCNPL 16

RESULT 7
US-09-825-517A-116
; Sequence 116, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 116
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-116

Query Match      84.0%; Score 84; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.5e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWMCNPL 16
Db 1 DWVCEIVKQWMCNPL 16

RESULT 8
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match      83.0%; Score 83; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 3.5e-05;
```

```
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWMCNPL 16
Db 1 DWVCEIVKQWMCNPL 16

RESULT 9
US-09-825-517A-60
; Sequence 60, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 60
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-60

Query Match      82.0%; Score 82; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.8e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWMCNPL 16
Db 1 DWVCEIDKGQWTCNPL 16

RESULT 10
US-09-825-517A-127
; Sequence 127, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 127
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-127

Query Match      82.0%; Score 82; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 4.8e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWMCNPL 16
Db 1 DWVCELLKQWFCNPL 16
```

RESULT 11
 US-09-825-517A-117
 ; Sequence 117, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 117
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-117

Query Match 81.0%; Score 81; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 6.7e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEIVKNQWICNPL 16
 ||||| ||||| |||||
 DB 1 DWVCEWGNQWTCNPL 16

RESULT 12
 US-09-825-517A-61
 ; Sequence 61, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 61
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-61

Query Match 80.0%; Score 80; DB 11; Length 16;
 Best Local Similarity 73.3%; Pred. No. 9.3e-05;
 Matches 11; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEIVKNQWICNPL 15
 ||||| : ||||| |||||
 DB 1 DWVCNLFKNQWFCNP 15

RESULT 13
 US-09-825-517A-139
 ; Sequence 139, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 139
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-139

Query Match 78.0%; Score 78; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 0.00018;
 Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEIVKNQWICNPL 16
 ||||| ||||| |||||
 DB 1 DWVCEYFKNQWLCNIL 16

RESULT 14
 US-09-825-517A-59
 ; Sequence 59, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 59
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-59

Query Match 77.0%; Score 77; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 0.00025;
 Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEIVKNQWICNPL 16
 ||||| ||||| |||||
 DB 1 DWVCEYFKNQWFCNVL 16

RESULT 15
 US-09-825-517A-92
 ; Sequence 92, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03


```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 92
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-92
```

```
Query Match      77.0%; Score 77; DB 11; Length 16;
Best Local Similarity 62.5%; Pred. No. 0.00025;
Matches 10; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 DWVCEIVKKNQWICNPL 16
      ||:||:||||| ||
Db      1 DWICNLFKNQWFCGEL 16
```

```
Search completed: September 8, 2004, 15:58:39
Job time : 43.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:02:12 ; Search time 191.8 Seconds
(without alignments)
81.423 Million cell updates/sec

Title: US-09-825-517A-148

Perfect score: 108

Sequence: 1 DWCEWLKHQWFCNAL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 6019581 seqs, 976053577 residues

Total number of hits satisfying chosen parameters: 6019581

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents AA Main.*

```

1: /cgn2_6/ptodata/2/paa/PCTUS_COMB.pep.*
2: /cgn2_6/ptodata/2/paa/US06_COMB.pep.*
3: /cgn2_6/ptodata/2/paa/US07_COMB.pep.*
4: /cgn2_6/ptodata/2/paa/US08_COMB.pep.*
5: /cgn2_6/ptodata/2/paa/US081_COMB.pep.*
6: /cgn2_6/ptodata/2/paa/US082_COMB.pep.*
7: /cgn2_6/ptodata/2/paa/US083_COMB.pep.*
8: /cgn2_6/ptodata/2/paa/US084_COMB.pep.*
9: /cgn2_6/ptodata/2/paa/US085_COMB.pep.*
10: /cgn2_6/ptodata/2/paa/US086_COMB.pep.*
11: /cgn2_6/ptodata/2/paa/US087_COMB.pep.*
12: /cgn2_6/ptodata/2/paa/US088_COMB.pep.*
13: /cgn2_6/ptodata/2/paa/US089_COMB.pep.*
14: /cgn2_6/ptodata/2/paa/US090_COMB.pep.*
15: /cgn2_6/ptodata/2/paa/US091_COMB.pep.*
16: /cgn2_6/ptodata/2/paa/US092_COMB.pep.*
17: /cgn2_6/ptodata/2/paa/US093_COMB.pep.*
18: /cgn2_6/ptodata/2/paa/US094_COMB.pep.*
19: /cgn2_6/ptodata/2/paa/US095_COMB.pep.*
20: /cgn2_6/ptodata/2/paa/US096_COMB.pep.*
21: /cgn2_6/ptodata/2/paa/US097A_COMB.pep.*
22: /cgn2_6/ptodata/2/paa/US097B_COMB.pep.*
23: /cgn2_6/ptodata/2/paa/US098_COMB.pep.*
24: /cgn2_6/ptodata/2/paa/US099A_COMB.pep.*
25: /cgn2_6/ptodata/2/paa/US099B_COMB.pep.*
26: /cgn2_6/ptodata/2/paa/US100_COMB.pep.*
27: /cgn2_6/ptodata/2/paa/US101_COMB.pep.*
28: /cgn2_6/ptodata/2/paa/US102_COMB.pep.*
29: /cgn2_6/ptodata/2/paa/US103_COMB.pep.*
30: /cgn2_6/ptodata/2/paa/US104_COMB.pep.*
31: /cgn2_6/ptodata/2/paa/US106_COMB.pep.*
32: /cgn2_6/ptodata/2/paa/US107_COMB.pep.*
33: /cgn2_6/ptodata/2/paa/US60_COMB.pep.*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description

1	108	100.0	16	23	US-09-825-517A-148	Sequence 148, App
2	98	90.7	16	23	US-09-825-517A-141	Sequence 141, App
3	96	88.9	16	23	US-09-825-517A-146	Sequence 146, App
4	92	85.2	16	23	US-09-825-517A-126	Sequence 126, App
5	92	85.2	16	23	US-09-825-517A-144	Sequence 144, App
6	91	84.3	16	23	US-09-541-345-78	Sequence 78, Appl
7	91	84.3	16	23	US-09-825-517A-78	Sequence 78, Appl
8	89	82.4	16	19	US-09-541-345-68	Sequence 68, Appl
9	89	82.4	16	23	US-09-825-517A-68	Sequence 68, Appl
10	89	82.4	16	23	US-09-825-517A-130	Sequence 130, App
11	86	79.6	16	23	US-09-825-517A-125	Sequence 125, App
12	86	79.6	16	23	US-09-825-517A-142	Sequence 142, App
13	85	78.7	16	19	US-09-541-345-54	Sequence 54, Appl
14	85	78.7	16	23	US-09-825-517A-54	Sequence 54, Appl
15	85	78.7	16	23	US-09-825-517A-112	Sequence 112, App
16	85	78.7	16	23	US-09-825-517A-122	Sequence 122, App
17	85	78.7	16	23	US-09-825-517A-138	Sequence 138, App
18	85	78.7	16	23	US-09-825-517A-140	Sequence 140, App
19	85	78.7	16	23	US-09-825-517A-143	Sequence 143, App
20	84	77.8	16	19	US-09-541-345-59	Sequence 59, Appl
21	84	77.8	16	19	US-09-541-345-101	Sequence 101, App
22	84	77.8	16	23	US-09-825-517A-59	Sequence 59, Appl
23	84	77.8	16	23	US-09-825-517A-101	Sequence 101, App
24	84	77.8	16	23	US-09-825-517A-127	Sequence 127, App
25	83	76.9	16	23	US-09-825-517A-115	Sequence 115, App
26	83	76.9	16	23	US-09-825-517A-147	Sequence 147, App
27	82	75.9	16	19	US-09-541-345-56	Sequence 56, Appl
28	82	75.9	16	19	US-09-541-345-75	Sequence 75, Appl
29	82	75.9	16	23	US-09-825-517A-56	Sequence 56, Appl
30	82	75.9	16	23	US-09-825-517A-75	Sequence 75, Appl
31	81	75.0	16	19	US-09-541-345-103	Sequence 103, App
32	81	75.0	16	23	US-09-825-517A-103	Sequence 103, App
33	80	74.1	16	19	US-09-541-345-86	Sequence 86, Appl
34	80	74.1	16	23	US-09-825-517A-86	Sequence 86, Appl
35	80	74.1	16	23	US-09-825-517A-117	Sequence 117, App
36	80	74.1	16	23	US-09-825-517A-150	Sequence 150, App
37	79	73.1	16	19	US-09-541-345-80	Sequence 80, Appl
38	79	73.1	16	23	US-09-825-517A-80	Sequence 80, Appl
39	79	73.1	16	23	US-09-825-517A-109	Sequence 109, App
40	77	71.3	16	23	US-09-825-517A-137	Sequence 137, App
41	77	71.3	16	23	US-09-825-517A-139	Sequence 139, App
42	76	70.4	16	19	US-09-541-345-49	Sequence 49, Appl
43	76	70.4	16	19	US-09-541-345-100	Sequence 100, App
44	76	70.4	16	23	US-09-825-517A-49	Sequence 49, Appl
45	76	70.4	16	23	US-09-825-517A-100	Sequence 100, App

ALIGNMENTS

RESULT 1
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; CURRENT FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match 100.0%; Score 108; DB 23; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.1e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKHQWFCNAL 16

RESULT 2
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match 90.7%; Score 98; DB 23; Length 16;
Best Local Similarity 93.8%; Pred. No. 4.8e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKHQWFCNAL 16

RESULT 3
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match 88.9%; Score 96; DB 23; Length 16;
Best Local Similarity 87.5%; Pred. No. 9.1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKSQWFCNSL 16

RESULT 4
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match 85.2%; Score 92; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKNQWCVNL 16

RESULT 5
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match 85.2%; Score 92; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKPQWCVNSL 16

RESULT 6
US-09-541-345-78
; Sequence 78, Application US/09541345
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC ANTIGEN (CEA)
; FILE REFERENCE: Sequence Listing DYX-016.0 US
; CURRENT APPLICATION NUMBER: US/09/541,345

```
; CURRENT FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 107
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CEA binding
; OTHER INFORMATION: polypeptide
US-09-541-345-78

Query Match      84.3%; Score 91; DB 19; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.4e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEFMKHQWFCNPL 16

RESULT 7
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match      84.3%; Score 91; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.4e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEFMKHQWFCNPL 16

RESULT 8
US-09-541-345-68
; Sequence 68, Application US/09541345
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC ANTIGEN (CEA)
; FILE REFERENCE: Sequence Listing DYX-016.0 US
; CURRENT APPLICATION NUMBER: US/09/541,345
; CURRENT FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 107
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CEA binding
; OTHER INFORMATION: polypeptide
US-09-541-345-68

Query Match      82.4%; Score 89; DB 19; Length 16;
```

```
Best Local Similarity 81.2%; Pred. No. 8.3e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEWFKPQWFCNPL 16

RESULT 9
US-09-825-517A-68
; Sequence 68, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match      82.4%; Score 89; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.3e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEWFKPQWFCNPL 16

RESULT 10
US-09-825-517A-130
; Sequence 130, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130

Query Match      82.4%; Score 89; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.3e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEWFKAQWFCNML 16

RESULT 11
```

```
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      79.6%; Score 86; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 DWVCEWLKHQWFCNAL 16
      ||||| |||||
Db      1 DWVCEWLKMQWACNVL 16

RESULT 12
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match      79.6%; Score 86; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 DWVCEWLKHQWFCNAL 16
      ||||| |||||
Db      1 DWVCEWLKMQWACNVL 16

RESULT 13
US-09-541-345-54
; Sequence 54, Application US/09541345
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC ANTIGEN (CEA)
; FILE REFERENCE: Sequence listing DYX-016.0 US
; CURRENT APPLICATION NUMBER: US/09/541,345
; CURRENT FILING DATE: 2000-04-03
```

```
; NUMBER OF SEQ ID NOS: 107
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CEA binding
; OTHER INFORMATION: polypeptide
US-09-541-345-54

Query Match      78.7%; Score 85; DB 19; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00029;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 DWVCEWLKHQWFCNAL 16
      ||||| |||||
Db      1 DWVCEWLKMQWACNML 16

RESULT 14
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match      78.7%; Score 85; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00029;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 DWVCEWLKHQWFCNAL 16
      ||||| |||||
Db      1 DWVCEWLKMQWACNML 16

RESULT 15
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112
```

Query Match 78.7%; Score 85; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00029;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKHQWFCNAL 16

Search completed: September 8, 2004, 15:35:53
Job time : 191.8 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-148

Perfect score: 108
Sequence: 1 DWCEWLKHQWFCNAL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

```
1: /cgm2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgm2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgm2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgm2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgm2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgm2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgm2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgm2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgm2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgm2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgm2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgm2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgm2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgm2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgm2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgm2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgm2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgm2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	108	100.0	16	11	US-09-825-517A-148
2	98	90.7	16	11	US-09-825-517A-141
3	96	88.9	16	11	US-09-825-517A-146
4	92	85.2	16	11	US-09-825-517A-126
5	92	85.2	16	11	US-09-825-517A-144
6	91	84.3	16	11	US-09-825-517A-78
7	89	82.4	16	11	US-09-825-517A-68
8	89	82.4	16	11	US-09-825-517A-130
9	86	79.6	16	11	US-09-825-517A-125
10	86	79.6	16	11	US-09-825-517A-142
11	85	78.7	16	11	US-09-825-517A-54
12	85	78.7	16	11	US-09-825-517A-112
13	85	78.7	16	11	US-09-825-517A-122
14	85	78.7	16	11	US-09-825-517A-138
15	85	78.7	16	11	US-09-825-517A-140

```
16 85 78.7 16 11 US-09-825-517A-143
17 84 77.8 16 11 US-09-825-517A-59
18 84 77.8 16 11 US-09-825-517A-101
19 84 77.8 16 11 US-09-825-517A-127
20 83 76.9 16 11 US-09-825-517A-115
21 83 76.9 16 11 US-09-825-517A-147
22 82 75.9 16 11 US-09-825-517A-56
23 82 75.9 16 11 US-09-825-517A-75
24 81 75.0 16 11 US-09-825-517A-103
25 80 74.1 16 11 US-09-825-517A-86
26 80 74.1 16 11 US-09-825-517A-117
27 80 74.1 16 11 US-09-825-517A-150
28 79 73.1 16 11 US-09-825-517A-80
29 79 73.1 16 11 US-09-825-517A-109
30 77 71.3 16 11 US-09-825-517A-137
31 77 71.3 16 11 US-09-825-517A-139
32 76 70.4 16 11 US-09-825-517A-49
33 76 70.4 16 11 US-09-825-517A-100
34 76 70.4 16 11 US-09-825-517A-151
35 75 69.4 16 11 US-09-825-517A-105
36 75 69.4 16 11 US-09-825-517A-128
37 74 68.5 16 11 US-09-825-517A-65
38 74 68.5 16 11 US-09-825-517A-81
39 74 68.5 16 11 US-09-825-517A-107
40 74 68.5 16 11 US-09-825-517A-113
41 73 67.6 16 11 US-09-825-517A-50
42 73 67.6 16 11 US-09-825-517A-76
43 73 67.6 16 11 US-09-825-517A-95
44 73 67.6 16 11 US-09-825-517A-104
45 73 67.6 16 11 US-09-825-517A-114
```

ALIGNMENTS

```
RESULT 1
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148
```

```
Query Match 100.0%; Score 108; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEWLKHQWFCNAL 16
```

```
RESULT 2
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match      90.7%; Score 98; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 2.7e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKHQWFCNAL 16
   ||||| |||||
Db 1 DWVCEWLKHQWFCNAL 16

RESULT 3
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match      88.9%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKHQWFCNAL 16
   ||||| |||||
Db 1 DWVCEWLKHQWFCNAL 16

RESULT 4
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match      85.2%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.7e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKHQWFCNAL 16
   ||||| |||||
Db 1 DWVCEWLKHQWFCNAL 16

RESULT 5
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match      85.2%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.7e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKHQWFCNAL 16
   ||||| |||||
Db 1 DWVCEWLKHQWFCNAL 16

RESULT 6
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match      84.3%; Score 91; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
Db 1 DWVCEFMKQWFCNPL 16

RESULT 7
US-09-825-517A-68
; Sequence 68, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match      82.4%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.1e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
Db 1 DWVCEFMKQWFCNPL 16

RESULT 8
US-09-825-517A-130
; Sequence 130, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130

Query Match      82.4%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.1e-05;
```

```
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
Db 1 DWVCEFMKQWFCNML 16

RESULT 9
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      79.6%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.0001;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy 1 DWVCEWLKHQWFCNAL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 10
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match      79.6%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.0001;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy 1 DWVCEWLKHQWFCNAL 16
Db 1 DWVCEWLKQWACNVL 16
```

RESULT 11

US-09-825-517A-54
 ; Sequence 54, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; PRIOR FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 54
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-54

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00014;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
 ||||| |||||
 Db 1 DWVCEWLKMQWACNML 16

RESULT 12

US-09-825-517A-112
 ; Sequence 112, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 112
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-112

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00014;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWLKMQWACNML 16

RESULT 13

US-09-825-517A-122
 ; Sequence 122, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 122
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-122

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00014;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWLKMQWACNML 16

RESULT 14

US-09-825-517A-138
 ; Sequence 138, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 138
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-138

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00014;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWLKMQWACNML 16

RESULT 15

US-09-825-517A-140
 ; Sequence 140, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140
```

```
Query Match      78.7%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWVCEWLKHQWFCNAL 16
          ||||| |||||
Db      1 DWVCEWLKQWACNIL 16
```

```
Search completed: September 8, 2004, 15:58:39
Job time : 44.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-148
Perfect score: 108
Sequence: 1 DWVCEWLKHQWFCNAL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A-COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B-COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A-COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B-COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS-COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	56	51.9	71	4	US-09-621-976-5666
2	49	45.4	399	1	US-08-414-926A-5
3	49	45.4	399	2	US-08-926-922-5
4	49	45.4	399	3	US-09-253-682-5
5	49	45.4	399	4	US-09-527-657-5
6	49	45.4	399	4	US-09-892-100-5
7	49	45.4	423	3	US-08-943-714-9
8	47	43.5	367	4	US-09-296-840A-3
9	45.5	42.1	588	4	US-09-252-991A-31356
10	44	40.7	411	2	US-08-568-459A-20
11	44	40.7	411	2	US-08-487-826B-32
12	44	40.7	411	4	US-09-210-288-20
13	44	40.7	423	4	US-09-489-039A-7898
14	44	40.7	2710	2	US-08-568-459A-12
15	44	40.7	2710	2	US-08-487-826B-12
16	44	40.7	2710	4	US-09-210-288-12
17	44	40.7	3060	2	US-08-487-826B-14
18	43.5	40.3	381	4	US-09-721-870-28
19	43	39.8	24	1	US-08-484-635-86
20	43	39.8	24	2	US-08-484-631-86
21	43	39.8	24	2	US-08-827-570-86
22	43	39.8	725	4	US-10-164-595-30
23	42.5	39.4	525	3	US-09-273-163-5
24	42.5	39.4	627	3	US-09-273-163-4
25	42.5	39.4	660	3	US-09-273-163-6
26	42	38.9	360	4	US-09-417-039-4
27	42	38.9	362	4	US-09-296-840A-2

```

28      42      38.9      469      4      US-09-252-991A-26991      Sequence 26991, A
29      42      38.9      677      3      US-09-061-768A-4      Sequence 4, Appli
30      42      38.9      677      4      US-09-764-246-4      Sequence 4, Appli
31      42      38.9      728      4      US-09-252-991A-22187      Sequence 22187, A
32      42      38.9      1129      4      US-09-252-991A-28552      Sequence 28552, A
33      42      38.9      1284      4      US-09-170-496D-294      Sequence 294, App
34      42      38.9      1284      4      US-09-364-425B-59      Sequence 59, Appl
35      41      38.0      63      4      US-09-497-491-47      Sequence 47, Appl
36      41      38.0      162      4      US-09-543-681A-6179      Sequence 6179, Ap
37      41      38.0      170      4      US-09-252-991A-21369      Sequence 21369, A
38      41      38.0      285      4      US-09-328-352-6357      Sequence 6357, Ap
39      41      38.0      382      4      US-09-252-991A-25095      Sequence 25095, A
40      41      38.0      533      4      US-09-907-794A-332      Sequence 332, App
41      41      38.0      533      4      US-09-905-125A-332      Sequence 332, App
42      41      38.0      535      2      US-08-633-879C-4      Sequence 4, Appli
43      41      38.0      537      2      US-08-633-879C-2      Sequence 2, Appli
44      41      38.0      660      4      US-09-907-794A-28      Sequence 28, Appli
45      41      38.0

```

ALIGNMENTS

```

RESULT 1
US-09-621-976-5666
; Sequence 5666, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.Pm
; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24...-1
US-09-621-976-5666

```

```

Query Match      51.9%; Score 56; DB 4; Length 71;
Best Local Similarity 53.8%; Pred No. 0.19;
Matches 7; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

```

```

Oy      1 DWVCEWLKHQWFC 13
Db      54 DWNCVWEPHHWLC 66

```

```

RESULT 2
US-08-414-326A-5
; Sequence 5, Application US/08414926A
; Patent No. 5721354
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
; STREET: 5 Palo Alto Square
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-2155
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

```

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,926A
; FILING DATE: March 31, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR-011/OOUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-494-7622
; TELEFAX: 415-857-0663
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-414-926A-5

Query Match 45.4%; Score 49; DB 1; Length 399;
Best Local Similarity 70.0%; Pred. No. 12;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCEWLKHQW 11
||| |||
Db 307 WVCEPKHEW 316

RESULT 3
US-08-926-922-5
; Sequence 5, Application US/08926922
; Patent No. 5925751
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cseri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-926-922-5

Query Match 45.4%; Score 49; DB 2; Length 399;
Best Local Similarity 70.0%; Pred. No. 12;

Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
Qy 2 WVCEWLKHQW 11
||| |||
Db 307 WVCEPKHEW 316

RESULT 4
US-09-253-682-5
; Sequence 5, Application US/09253682
; Patent No. 6040170
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cseri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/253,682
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-253-682-5

Query Match 45.4%; Score 49; DB 3; Length 399;
Best Local Similarity 70.0%; Pred. No. 12;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCEWLKHQW 11
||| |||
Db 307 WVCEPKHEW 316

RESULT 5
US-09-527-657-5
; Sequence 5, Application US/09527657
; Patent No. 6291236
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cseri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA


```
;
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/527,657
; FILING DATE: 17-Mar-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-527-657-5

Query Match 45.4%; Score 49; DB 3; Length 399;
Best Local Similarity 70.0%; Pred. No. 12;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCEWLKHQW 11
Db 307 WVCEEPKHEW 316

RESULT 6
US-09-892-100-5
; Sequence 5, Application US/09892100
; Patent No. 6635477
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/892,100
; FILING DATE: 26-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/527,657
; FILING DATE: 17-Mar-2000
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
```

```
;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-892-100-5

Query Match 45.4%; Score 49; DB 4; Length 399;
Best Local Similarity 70.0%; Pred. No. 12;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCEWLKHQW 11
Db 307 WVCEEPKHEW 316

RESULT 7
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berka, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NO. 6187578o No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 45.4%; Score 49; DB 3; Length 423;
Best Local Similarity 43.8%; Pred. No. 13;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
```


COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,826B
FILING DATE: 10-SEP-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Israelsen, Ned
REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER: NIH121.001CP1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 411 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
US-08-487-826B-32

Query Match 40.7%; Score 44; DB 2; Length 411;
Best Local Similarity 42.9%; Pred. No. 68;
Matches 6; Conservative 3; Mismatches 3; Indels 3; Gaps 1;

Qy 2 WVCEWLKHQWFCNA 15
| : || : || : ||
Db 229 WMTWEA--EWYCKA 240

RESULT 12
US-09-210-288-20
Sequence 20, Application US/09210288
Patent No. 6392026
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
APPLICANT: Chitnis, Chetan
APPLICANT: Miller, Louis H.
APPLICANT: Peterson, David S.
APPLICANT: Su, Xin-zhaun
APPLICANT: Wellem, Thomas E.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/210,288
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Fuller, Michael
REGISTRATION NUMBER: 36,516
REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 411 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
US-09-210-288-20

Query Match 40.7%; Score 44; DB 4; Length 411;
Best Local Similarity 42.9%; Pred. No. 68;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKHQWFCNA 15
| : || : || : ||
Db 229 WMTWEA--EWYCKA 240

RESULT 13
US-09-489-039A-7898
Sequence 7898, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 7898
LENGTH: 423
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-7898

Query Match 40.7%; Score 44; DB 4; Length 423;
Best Local Similarity 66.7%; Pred. No. 70;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 8 KHQWFCNAL 16
| : ||||| : |||||
Db 328 RHQWFCERL 336

RESULT 14
US-08-568-459A-12
Sequence 12, Application US/08568459A
Patent No. 5849306
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
APPLICANT: Chitnis, Chetan
APPLICANT: Miller, Louis H.
APPLICANT: Peterson, David S.
APPLICANT: Su, Xin-zhaun
APPLICANT: Wellem, Thomas E.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-147

Perfect score: 99

Sequence: 1 DWCEFIKSWQFCNVL 16

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	99	100.0	16	11	US-09-825-517A-147
2	91	91.9	16	11	US-09-825-517A-75
3	91	91.9	16	11	US-09-825-517A-137
4	90	90.9	16	11	US-09-825-517A-80
5	90	90.9	16	11	US-09-825-517A-150
6	89	89.9	16	11	US-09-825-517A-59
7	88	88.9	16	11	US-09-825-517A-86
8	88	88.9	16	11	US-09-825-517A-127
9	86	86.9	16	11	US-09-825-517A-146
10	85	85.9	16	11	US-09-825-517A-65
11	85	85.9	16	11	US-09-825-517A-78
12	84	84.8	16	11	US-09-825-517A-49
13	84	84.8	16	11	US-09-825-517A-67
14	84	84.8	16	11	US-09-825-517A-126
15	84	84.8	16	11	US-09-825-517A-130

16	84	84.8	16	11	US-09-825-517A-151	Sequence 151, App
17	83	83.8	16	11	US-09-825-517A-76	Sequence 76, App1
18	83	83.8	16	11	US-09-825-517A-100	Sequence 100, App
19	83	83.8	16	11	US-09-825-517A-104	Sequence 104, App
20	83	83.8	16	11	US-09-825-517A-105	Sequence 105, App
21	83	83.8	16	11	US-09-825-517A-141	Sequence 141, App
22	83	83.8	16	11	US-09-825-517A-148	Sequence 148, App
23	82	82.8	16	11	US-09-825-517A-56	Sequence 56, App1
24	82	82.8	16	11	US-09-825-517A-116	Sequence 116, App
25	82	82.8	16	11	US-09-825-517A-139	Sequence 139, App
26	81	81.8	16	11	US-09-825-517A-113	Sequence 113, App
27	81	81.8	16	11	US-09-825-517A-128	Sequence 128, App
28	80	80.8	16	11	US-09-825-517A-109	Sequence 109, App
29	80	80.8	16	11	US-09-825-517A-118	Sequence 118, App
30	80	80.8	16	11	US-09-825-517A-123	Sequence 123, App
31	79	79.8	16	11	US-09-825-517A-50	Sequence 50, App1
32	79	79.8	16	11	US-09-825-517A-68	Sequence 68, App1
33	79	79.8	16	11	US-09-825-517A-125	Sequence 125, App
34	79	79.8	16	11	US-09-825-517A-135	Sequence 135, App
35	79	79.8	16	11	US-09-825-517A-142	Sequence 142, App
36	78	78.8	16	11	US-09-825-517A-107	Sequence 107, App
37	78	78.8	16	11	US-09-825-517A-112	Sequence 112, App
38	78	78.8	16	11	US-09-825-517A-114	Sequence 114, App
39	78	78.8	16	11	US-09-825-517A-122	Sequence 122, App
40	78	78.8	16	11	US-09-825-517A-133	Sequence 133, App
41	78	78.8	16	11	US-09-825-517A-140	Sequence 140, App
42	78	78.8	16	11	US-09-825-517A-144	Sequence 144, App
43	77	77.8	16	11	US-09-825-517A-88	Sequence 88, App1
44	77	77.8	16	11	US-09-825-517A-119	Sequence 119, App
45	77	77.8	16	11	US-09-825-517A-149	Sequence 149, App

ALIGNMENTS

RESULT 1
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match 100.0%; Score 99; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.7e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DWCEFIKSWQFCNVL 16
Db 1 DWCEFIKSWQFCNVL 16

RESULT 2
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match          91.9%; Score 91; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.3e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKSQWFCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 3
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match          91.9%; Score 91; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFIKSQWFCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 4
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match          90.9%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3.3e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFIKSQWFCNVL 16
Db 1 DWVCEFIKNQWFCNVL 16

RESULT 5
US-09-825-517A-150
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

Query Match          90.9%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.3e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKSQWFCNVL 16
Db 1 DWVCEFFRQWFCNVL 16

RESULT 6
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

Query Match      89.9%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.5e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWFCNVL 16
Db 1 DWVCEYFKQWFCNVL 16

RESULT 7
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86

Query Match      88.9%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 6.3e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWFCNVL 16
Db 1 DWVCEFFKQWFCNLL 16

RESULT 8
US-09-825-517A-127
; Sequence 127, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 127
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-127

Query Match      88.9%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 6.3e-06;
```

```
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWFCNVL 16
Db 1 DWVCELLKNQWFCNVL 16

RESULT 9
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match      86.9%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWFCNVL 16
Db 1 DWVCEWLKQWFCNSL 16

RESULT 10
US-09-825-517A-65
; Sequence 65, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 65
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-65

Query Match      85.9%; Score 85; DB 11; Length 16;
Best Local Similarity 68.8%; Pred. No. 1.7e-05;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWFCNVL 16
Db 1 DWVCELVKQWYCNIL 16
```

RESULT 11

```

US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

```

```

Query Match      85.9%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.7e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFIKSQWFCNVL 16
   |||||:|||||
DB 1 DWVCEFMKQWFCNPL 16

```

RESULT 12

```

US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

```

```

Query Match      84.8%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.4e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFIKSQWFCNVL 16
   |||||:|||||
DB 1 DWVCEFLKQWACNVL 16

```

RESULT 13

```

US-09-825-517A-67
; Sequence 67, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67

```

```

Query Match      84.8%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.4e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFIKSQWFCNVL 16
   |||||:|||||
DB 1 DWVCEFYKQWNCNL 16

```

RESULT 14

```

US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

```

```

Query Match      84.8%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.4e-05;
Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFIKSQWFCNVL 16
   |||||:|||||
DB 1 DWVCEWLKQWQWNCVL 16

```

RESULT 15

```

US-09-825-517A-130
; Sequence 130, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```



```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130
```

```
Query Match      84.8%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.4e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 DWVCEFIKSONFCNVL 16
        |||||:|:|||||:|
Db      1 DWVCEWFKAQWFCNNL 16
```

```
Search completed: September 8, 2004, 15:58:38
Job time : 43.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-147
Perfect score: 99
Sequence: 1 DWCEFIKQWFCNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:
1: /cgn2_6/ptodata/2/iaa/5A COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES												
Result No.	Score	% Match	Query Length	DB ID	Description							
1	42.5	42.9	322	1	US-08-118-270-36	Sequence 36, Appl						
2	42.5	42.9	322	5	PCT-US93-08528-36	Sequence 36, Appl						
3	42.5	42.9	425	1	US-07-657-769B-69	Sequence 69, Appl						
4	42.5	42.9	425	1	US-08-037-938-7	Sequence 7, Appl						
5	42.5	42.9	425	1	US-08-313-553-13	Sequence 13, Appl						
6	42.5	42.9	425	1	US-07-789-184-220	Sequence 220, App						
7	42.5	42.9	425	1	US-08-476-000-7	Sequence 7, Appl						
8	42.5	42.9	425	1	US-08-475-263-220	Sequence 220, App						
9	42.5	42.9	425	1	US-08-472-840-7	Sequence 7, Appl						
10	42.5	42.9	425	1	US-08-485-886-220	Sequence 220, App						
11	42.5	42.9	425	2	US-08-477-362-220	Sequence 220, App						
12	42.5	42.9	425	2	US-08-477-134-220	Sequence 220, App						
13	42.5	42.9	425	2	US-08-911-320A-3	Sequence 3, Appl						
14	42.5	42.9	425	2	US-08-476-976-7	Sequence 7, Appl						
15	42.5	42.9	425	2	US-08-742-440A-7	Sequence 7, Appl						
16	42.5	42.9	425	2	US-08-560-098A-57	Sequence 57, Appl						
17	42.5	42.9	425	3	US-08-767-993-13	Sequence 13, Appl						
18	42.5	42.9	425	3	US-08-473-489A-220	Sequence 220, App						
19	42.5	42.9	425	3	US-08-474-410-7	Sequence 7, Appl						
20	42.5	42.9	425	3	US-08-485-695-220	Sequence 220, App						
21	42.5	42.9	425	3	US-09-217-101-3	Sequence 3, Appl						
22	42.5	42.9	425	3	US-08-018-760-220	Sequence 220, App						
23	42.5	42.9	425	3	US-08-486-673B-7	Sequence 7, Appl						
24	42.4	42.4	536	4	US-09-232-225-21	Sequence 21, Appl						
25	42.4	42.4	555	4	US-09-292-225-15	Sequence 15, Appl						
26	42.4	42.4	555	4	US-09-292-225-18	Sequence 18, Appl						
27	41	41.4	272	4	US-09-328-352-6959	Sequence 6959, Ap						

```

28 41 41.4 401 4 US-09-252-991A-17272 Sequence 17272, A
29 40 40.4 21 4 US-09-337-227C-27 Sequence 27, Appl
30 40 40.4 21 4 US-09-723-251A-27 Sequence 27, Appl
31 40 40.4 222 4 US-09-328-352-6740 Sequence 6740, Ap
32 40 40.4 280 4 US-09-489-039A-7566 Sequence 7566, Ap
33 40 40.4 399 1 US-08-414-926A-5 Sequence 5, Appli
34 40 40.4 399 2 US-08-926-922-5 Sequence 5, Appli
35 40 40.4 399 3 US-09-253-682-5 Sequence 5, Appli
36 40 40.4 399 3 US-09-527-657-5 Sequence 5, Appli
37 40 40.4 399 4 US-09-892-100-5 Sequence 5, Appli
38 40 40.4 413 4 US-09-328-352-7815 Sequence 7815, Ap
39 40 40.4 480 2 US-08-828-488-8 Sequence 8, Appli
40 40 40.4 480 4 US-09-299-689A-8 Sequence 336, App
41 40 40.4 480 4 US-09-702-705-336 Sequence 336, App
42 40 40.4 480 4 US-09-736-457-336 Sequence 336, App
43 40 40.4 480 4 US-09-614-124B-336 Sequence 336, App
44 40 40.4 480 4 US-09-671-325-336 Sequence 336, App
45 40 40.4 480 4 US-09-589-184-336 Sequence 336, App

```

ALIGNMENTS

```

RESULT 1
US-08-118-270-36
; Sequence 36, Application US/08118270
; Patent No. 5508384
; GENERAL INFORMATION:
; APPLICANT: Murphy, Randall B.
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
; TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
; NUMBER OF SEQUENCES: 348
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/118,270
; FILING DATE: 09-SEP-1993
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/943,236
; FILING DATE: 10-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, Kevin G.
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: MURPHY=2A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 322 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-118-270-36

```

Query Match 42.9%; Score 42.5; DB 1; Length 322;
Best Local Similarity 30.0%; Pred. No. 38;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKQWFCNV 15

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKQWFCNV 15
||| :|: :|:|:
Db 167 DWQFSELCRFVTAIFYCNM 186

RESULT 5
US-08-313-553-13
; Sequence 13, Application US/08313553
; Patent No. 5641650
; GENERAL INFORMATION:
; APPLICANT: TURNER, George J.
; APPLICANT: BETLACH, Mary C.
; TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS POLYPEPTIDES
; TITLE OF INVENTION: IN HALOBACTERIA
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/313,553
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/038,662
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-57669/WH
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-313-553-13

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKQWFCNV 15
||| :|: :|:|:
Db 161 DWQFSELCRFVTAIFYCNM 180

RESULT 6
US-07-789-184-220
; Sequence 220, Application US/07789184
; Patent No. 5688768
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; APPLICANT: SCARBOROUGH, ROBERT M.
; TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
; TITLE OF INVENTION: RELATED PHARMACEUTICALS
; NUMBER OF SEQUENCES: 223

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/789,184
; FILING DATE: 19911107
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-789-184-220

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKQWFCNV 15
||| :|: :|:|:
Db 167 DWQFSELCRFVTAIFYCNM 186

RESULT 7
US-08-476-000-7
; Sequence 7, Application US/08476000
; Patent No. 5716789
; GENERAL INFORMATION:
; APPLICANT: SUNDELIN, JOHAN
; APPLICANT: SCARBOROUGH, ROBERT M.
; TITLE OF INVENTION: RECOMBINANT C140 RECEPTOR, ITS AGONISTS
; TITLE OF INVENTION: AND ANTAGONISTS, AND NUCLEIC ACIDS ENCODING THE RECEPTOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Ave. N.W., Ste. 5500
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20006-1812
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/476,000
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/390,301
; FILING DATE: 25-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: ADLER, REID G.
; REGISTRATION NUMBER: 30,988


```
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,886
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,184
; FILING DATE: 07-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-485-886-220

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

QY 1 DW-----VCBFIKSQWFCNV 15
Db 167 DWQFSELRCRFVTAIFYCNM 186
```

```
RESULT 11
US-08-477-362-220
; Sequence 220, Application US/08477362
; Patent No. 5849507
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
; RELATED PHARMACEUTICALS
; NUMBER OF SEQUENCES: 223
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,362
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,184
; FILING DATE: 07-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
```

```
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-477-362-220

Query Match 42.9%; Score 42.5; DB 2; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

QY 1 DW-----VCBFIKSQWFCNV 15
Db 167 DWQFSELRCRFVTAIFYCNM 186

RESULT 12
US-08-477-134-220
; Sequence 220, Application US/08477134
; Patent No. 5856448
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
; RELATED PHARMACEUTICALS
; NUMBER OF SEQUENCES: 223
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,134
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,184
; FILING DATE: 07-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-477-134-220

Query Match 42.9%; Score 42.5; DB 2; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

QY 1 DW-----VCBFIKSQWFCNV 15
Db 167 DWQFSELRCRFVTAIFYCNM 186

RESULT 13
US-08-911-320A-3
; Sequence 3, Application US/08911320A
```

```

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/390,301
FILING DATE: 25-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: ADLER, REID G.
REGISTRATION NUMBER: 30,988
REFERENCE/DOCKET NUMBER: 2803-0006.20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-476-976-7

Query Match          42.9%; Score 42.5; DB 2; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

QY      1 DW-----VCEFIKSOQMFCNV 15
        ||| :|| :||| :
DB      167 DMQFGSELCRFVTAFYCINN 186

RESULT 15
US-08-742-440A-7
Sequence 7, Application US/08742440A
Patent No. 5892014
GENERAL INFORMATION:
APPLICANT: Coughlin, Shaun
APPLICANT: Ishihari, Hiroaki
TITLE OF INVENTION: Protease Activated Receptor
TITLE OF INVENTION: 3 and Uses Thereof
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Bozicevic & Reed, LLP
STREET: 285 Hamilton Avenue, Suite 200
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94301
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/742,440A
FILING DATE: 30-OCT-1996
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Sherwood, Pamela J
REGISTRATION NUMBER: 36,677
REFERENCE/DOCKET NUMBER: UCAL/060PAT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-327-3400
TELEFAX: 650 327-3231
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein

```


US-08-742-440A-7

Query Match 42.9%; Score 42.5; DB 2; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

QY 1 DW-----VCEFIKSWFCNV 15
|| : || : : || :
Db 167 DWQFGSELCRFVTAAFYCNM 186

Search completed: September 8, 2004, 14:31:54
Job time : 14.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-146
Perfect score: 104
Sequence: 1 DWCEWLKQWFCNSL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	100.0	16	11	US-09-825-517A-146
2	96	92.3	16	11	US-09-825-517A-141
3	96	92.3	16	11	US-09-825-517A-144
4	96	92.3	16	11	US-09-825-517A-148
5	92	88.5	16	11	US-09-825-517A-130
6	90	86.5	16	11	US-09-825-517A-68
7	90	86.5	16	11	US-09-825-517A-126
8	86	82.7	16	11	US-09-825-517A-54
9	86	82.7	16	11	US-09-825-517A-138
10	86	82.7	16	11	US-09-825-517A-143
11	86	82.7	16	11	US-09-825-517A-147
12	85	81.7	16	11	US-09-825-517A-103
13	85	81.7	16	11	US-09-825-517A-112
14	85	81.7	16	11	US-09-825-517A-122
15	85	81.7	16	11	US-09-825-517A-125

16	85	81.7	16	11	US-09-825-517A-140	Sequence 140, App
17	85	81.7	16	11	US-09-825-517A-142	Sequence 142, App
18	83	79.8	16	11	US-09-825-517A-115	Sequence 115, App
19	82	78.8	16	11	US-09-825-517A-56	Sequence 56, App1
20	82	78.8	16	11	US-09-825-517A-59	Sequence 59, App1
21	82	78.8	16	11	US-09-825-517A-78	Sequence 78, App1
22	82	78.8	16	11	US-09-825-517A-101	Sequence 101, App
23	82	78.8	16	11	US-09-825-517A-127	Sequence 127, App
24	81	77.9	16	11	US-09-825-517A-137	Sequence 137, App
25	80	76.9	16	11	US-09-825-517A-75	Sequence 75, App1
26	80	76.9	16	11	US-09-825-517A-86	Sequence 86, App1
27	80	76.9	16	11	US-09-825-517A-105	Sequence 105, App
28	80	76.9	16	11	US-09-825-517A-109	Sequence 109, App
29	80	76.9	16	11	US-09-825-517A-117	Sequence 117, App
30	80	76.9	16	11	US-09-825-517A-150	Sequence 150, App
31	79	76.0	16	11	US-09-825-517A-113	Sequence 113, App
32	77	74.0	16	11	US-09-825-517A-80	Sequence 80, App1
33	76	73.1	16	11	US-09-825-517A-65	Sequence 65, App1
34	76	73.1	16	11	US-09-825-517A-100	Sequence 100, App
35	76	73.1	16	11	US-09-825-517A-139	Sequence 139, App
36	75	72.1	16	11	US-09-825-517A-49	Sequence 49, App1
37	75	72.1	16	11	US-09-825-517A-151	Sequence 151, App
38	74	71.2	16	11	US-09-825-517A-67	Sequence 67, App1
39	74	71.2	16	11	US-09-825-517A-77	Sequence 77, App1
40	74	71.2	16	11	US-09-825-517A-114	Sequence 114, App
41	73	70.2	16	11	US-09-825-517A-90	Sequence 90, App1
42	73	70.2	16	11	US-09-825-517A-95	Sequence 95, App1
43	73	70.2	16	11	US-09-825-517A-104	Sequence 104, App
44	73	70.2	16	11	US-09-825-517A-128	Sequence 128, App
45	73	70.2	16	11	US-09-825-517A-149	Sequence 149, App

ALIGNMENTS

RESULT 1
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKQWFCNSL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEWLKQWFCNSL 16

RESULT 2
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match          92.3%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.5e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKSWQFNCNL 16
   ||||| ||||| ||||| |||||
Db 1 DWVCEWLKQWFCNAL 16

RESULT 3
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match          92.3%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.5e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKSWQFNCNL 16
   ||||| ||||| ||||| |||||
Db 1 DWVCEWLKQWFCNAL 16

RESULT 4
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match          92.3%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.5e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKSWQFNCNL 16
   ||||| ||||| ||||| |||||
Db 1 DWVCEWLKQWFCNAL 16

RESULT 5
US-09-825-517A-130
; Sequence 130, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130

Query Match          88.5%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.8e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKSWQFNCNL 16
   ||||| ||||| ||||| |||||
Db 1 DWVCEWLKQWFCNML 16

RESULT 6
US-09-825-517A-68
; Sequence 68, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match      86.5%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.3e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
Db 1 DWVCEWPKQWFCNPL 16

RESULT 7
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match      86.5%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.3e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
Db 1 DWVCEWLKQWFCNVL 16

RESULT 8
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00011;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
Db 1 DWVCEWLKQWACNWL 16

RESULT 9
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00011;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
Db 1 DWVCEWLKQWACNWL 16

RESULT 10
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00011;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
Db 1 DWVCEWLKQWACNWL 16
```

```
RESULT 11
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00011;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKSWQFCNSL 16
   |||||:|||||
Db 1 DWVCEFIKSWQFCNVL 16

RESULT 12
US-09-825-517A-103
; Sequence 103, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 103
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-103

Query Match      81.7%; Score 85; DB 11; Length 16;
Best Local Similarity 80.0%; Pred. No. 0.00015;
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKSWQFCNS 15
   :|||||:||||
Db 1 NWVCEWLKFWQWCNS 15

RESULT 13
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
```

```
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match      81.7%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00015;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKSWQFCNSL 16
   |||||:|||||
Db 1 DWVCEWLKQWACNVL 16

RESULT 14
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match      81.7%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00015;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKSWQFCNSL 16
   |||||:|||||
Db 1 DWVCEWLKQWACNVL 16

RESULT 15
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125
```

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      81.7%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00015;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 DWVCEWLKQWFCNSL 16
      |||||
Db      1 DWVCEWLKQWACNVL 16
      |||||

Search completed: September 8, 2004, 15:58:38
Job time : 43.85 secs
```



```
; NAME/KEY: SIGNAL
; LOCATION: -24...-1
US-09-621-976-5666

Query Match      45.2%; Score 47; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 3.7;
Matches 6; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 DMVCEWLKSQWFC 13
   ||| ||| ||| |||
Db 54 DMNCVWEPHHLWC 66

RESULT 3
US-09-252-991A-21369
; Sequence 21369, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21369
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21369

Query Match      44.2%; Score 46; DB 4; Length 170;
Best Local Similarity 60.0%; Pred. No. 13;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWLKSQW 11
   ||| ||| |||
Db 36 WLCAWLASCW 45

RESULT 4
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berka, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathiesen, Thomas Erik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61875780 No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
```

```
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match      44.2%; Score 46; DB 3; Length 423;
Best Local Similarity 37.5%; Pred. No. 34;
Matches 6; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DMVCEWLKSQWFCNSL 16
   ||| ||| ||| |||
Db 340 DWICNWLGNVEVANAV 355

RESULT 5
US-09-721-870-28
; Sequence 28, Application US/09721870
; Patent No. 6632621
; GENERAL INFORMATION:
; APPLICANT: Lowery, David E.
; APPLICANT: Geary, Timothy G.
; APPLICANT: Kubiak, Teresa M.
; APPLICANT: Larsen, Martha J.
; TITLE OF INVENTION: MODULATORS OF G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 28341/6223
; CURRENT APPLICATION NUMBER: US/09/721,870
; CURRENT FILING DATE: 2000-11-24
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 381
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-721-870-28

Query Match      43.8%; Score 45.5; DB 4; Length 381;
Best Local Similarity 34.8%; Pred. No. 36;
Matches 8; Conservative 2; Mismatches 2; Indels 11; Gaps 1;

QY 2 WVC-----EWLKSQWFC 13
   ||| ||| ||| |||
Db 80 WICLPTLLINSIFTEWLWGQFFC 102

RESULT 6
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7155
; LENGTH: 89
```

```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7155

Query Match 42.3%; Score 44.5; DB 4; Length 89;
Best Local Similarity 30.8%; Pred. No. 11;
Matches 8; Conservative 2; Mismatches 5; Indels 11; Gaps 1;

Qy 1 DWCEWLKSWQ-----FCNS 15
Db 45 DWLADWKKVGTGKHVSSQHQFCTS 70

RESULT 7
US-08-484-635-86
; Sequence 86, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-631-86

Query Match 42.3%; Score 44; DB 2; Length 24;
Best Local Similarity 38.5%; Pred. No. 3.3;
Matches 5; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCEWLKSWQFC 13
Db 10 EYVCQWGPDTWLC 22

RESULT 9
US-08-827-570-86
; Sequence 86, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
```

Query Match 42.3%; Score 44; DB 4; Length 1284;
Best Local Similarity 40.0%; Pred. No. 2.1e+02;

Qy 2 VVCEWLKQWFNSL 16
|||:|
Db 258 VVHEWTSNWISTAV 272

RESULT 12

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571

FILING DATE: JULY 2, 1994
ATTORNEY/AGENT INFORMATION:

```
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 4069:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 92 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...92
; SEQUENCE DESCRIPTION: SEQ ID NO: 4069:
US-09-107-532A-4069

Query Match 41.8%; Score 43.5; DB 4; Length 92;
Best Local Similarity 61.5%; Pred. No. 16;
Matches 8; Conservative 1; Mismatches 3; Indels 1; Gaps 1;

Qy 4 CEWLKQWFCNSL 16
Db 8 CHWLSTQW-SNSL 19

RESULT 13
US-08-568-459A-20
; Sequence 20, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 07-DEC-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-0176
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-487-826B-32

Query Match 41.3%; Score 43; DB 2; Length 411;
Best Local Similarity 35.7%; Pred. No. 90;
Matches 5; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

Qy 2 WVCEWLKQWFCNS 15
Db 229 WMTW--AEWYCKA 240

RESULT 14
US-08-487-826B-32
; Sequence 32, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-487-826B-32

Query Match 41.3%; Score 43; DB 2; Length 411;
Best Local Similarity 35.7%; Pred. No. 90;
Matches 5; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

Qy 2 WVCEWLKQWFCNS 15
Db 229 WMTW--AEWYCKA 240
```

RESULT 15
US-09-210-288-20
; Sequence 20, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-09-210-288-20

Query Match 41.3%; Score 43; DB 4; Length 411;
Best Local Similarity 35.7%; Pred. NO. 90;
Matches 5; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

Qy 2 WVCEWLKSWFCNS 15
|:|:|:|:|:
Db 229 WMTFW-AEWYCKA 240

Search completed: September 8, 2004, 14:31:53
Job time : 13.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-145

Perfect score: 102
Sequence: 1 DWVCNLFKNQWFCDSL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	102	100.0	16	11	US-09-825-517A-145
2	98	96.1	16	11	US-09-825-517A-38
3	96	94.1	16	11	US-09-825-517A-48
4	95	93.1	16	11	US-09-825-517A-37
5	95	93.1	16	11	US-09-825-517A-45
6	95	93.1	16	11	US-09-825-517A-42
7	95	93.1	16	11	US-09-825-517A-52
8	95	93.1	16	11	US-09-825-517A-58
9	95	93.1	16	11	US-09-825-517A-62
10	95	93.1	16	11	US-09-825-517A-74
11	95	93.1	16	11	US-09-825-517A-120
12	95	93.1	16	11	US-09-825-517A-121
13	95	93.1	16	11	US-09-825-517A-124
14	95	93.1	16	11	US-09-825-517A-129
15	94	92.2	16	11	US-09-825-517A-53

16	94	92.2	16	11	US-09-825-517A-73	Sequence 73, Appl
17	94	92.2	16	11	US-09-825-517A-77	Sequence 77, Appl
18	94	92.2	16	11	US-09-825-517A-81	Sequence 81, Appl
19	94	92.2	16	11	US-09-825-517A-83	Sequence 83, Appl
20	94	92.2	16	11	US-09-825-517A-136	Sequence 136, App
21	93	91.2	16	11	US-09-825-517A-39	Sequence 39, Appl
22	93	91.2	16	11	US-09-825-517A-47	Sequence 47, Appl
23	93	91.2	16	11	US-09-825-517A-57	Sequence 57, Appl
24	93	91.2	16	11	US-09-825-517A-98	Sequence 98, Appl
25	93	91.2	16	11	US-09-825-517A-131	Sequence 131, App
26	93	91.2	16	11	US-09-825-517A-134	Sequence 134, App
27	92	90.2	16	11	US-09-825-517A-46	Sequence 46, Appl
28	92	90.2	16	11	US-09-825-517A-132	Sequence 132, App
29	91	89.2	16	11	US-09-825-517A-43	Sequence 43, Appl
30	90	88.2	16	11	US-09-825-517A-50	Sequence 50, Appl
31	90	88.2	16	11	US-09-825-517A-69	Sequence 69, Appl
32	90	88.2	16	11	US-09-825-517A-84	Sequence 84, Appl
33	90	88.2	16	11	US-09-825-517A-119	Sequence 119, App
34	90	88.2	16	11	US-09-825-517A-128	Sequence 128, App
35	89	87.3	16	11	US-09-825-517A-61	Sequence 61, Appl
36	89	87.3	16	11	US-09-825-517A-64	Sequence 64, Appl
37	89	87.3	16	11	US-09-825-517A-66	Sequence 66, Appl
38	89	87.3	16	11	US-09-825-517A-99	Sequence 99, Appl
39	88	86.3	16	11	US-09-825-517A-40	Sequence 40, Appl
40	88	86.3	16	11	US-09-825-517A-71	Sequence 71, Appl
41	88	86.3	16	11	US-09-825-517A-108	Sequence 108, App
42	88	86.3	16	11	US-09-825-517A-79	Sequence 79, Appl
43	87	85.3	16	11	US-09-825-517A-89	Sequence 89, Appl
44	87	85.3	16	11	US-09-825-517A-92	Sequence 92, Appl
45	87	85.3	16	11	US-09-825-517A-92	Sequence 92, Appl

ALIGNMENTS

RESULT 1
US-09-825-517A-145
; Sequence 145, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DXX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 145
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-145

Query Match 100.0%; Score 102; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDSL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCNLFKNQWFCDSL 16

RESULT 2
US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-38

Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDL 15

RESULT 3
US-09-825-517A-48
; Sequence 48, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-48

Query Match          94.1%; Score 96; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9e-07;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 16
DB 1 DWVCNLFKNQWFCDMA 16

RESULT 4
US-09-825-517A-37
; Sequence 37, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-37

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDL 15

RESULT 5
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDV 15

RESULT 6
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT

```



```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 1.2e-06;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDI 15

RESULT 7
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDV 15

RESULT 8
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
```

```
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDV 15

RESULT 9
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDV 15

RESULT 10
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDV 15

RESULT 11
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDV 15
```

RESULT 11
 US-09-825-517A-120
 ; Sequence 120, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 120
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-120

Query Match 93.1%; Score 95; DB 11; Length 16;
 Best Local Similarity 93.3%; Pred. No. 1.2e-06;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
 |||:|||||:
 DB 1 DWVCNLFKNQWFCDV 15

RESULT 12
 US-09-825-517A-121
 ; Sequence 121, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 121
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-121

Query Match 93.1%; Score 95; DB 11; Length 16;
 Best Local Similarity 86.7%; Pred. No. 1.2e-06;
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
 |||:|||||:
 DB 1 DWICNLFKNQWFCDI 15

RESULT 13
 US-09-825-517A-124
 ; Sequence 124, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 124
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-124

Query Match 93.1%; Score 95; DB 11; Length 16;
 Best Local Similarity 93.3%; Pred. No. 1.2e-06;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
 |||:|||||:
 DB 1 DWVCNLFKNQWFCDV 15

RESULT 14
 US-09-825-517A-129
 ; Sequence 129, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 129
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-129

Query Match 93.1%; Score 95; DB 11; Length 16;
 Best Local Similarity 93.3%; Pred. No. 1.2e-06;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
 |||:|||||:
 DB 1 DWVCNLFKNQWFCDV 15

RESULT 15
 US-09-825-517A-53
 ; Sequence 53, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-53
```

```
Query Match          92.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.7e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DWVCNLFKNQWFCD 14
         |||||
Db       1 DWVCNLFKNQWFCD 14
```

```
Search completed: September 8, 2004, 15:58:38
Job time : 43.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-145
Perfect score: 102
Sequence: 1 DWVCNLFKNQWFCDL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	45.1	478	4	US-09-137-223A-2
2	45	44.1	215	3	US-09-131-028A-3
3	45	44.1	215	3	US-09-131-028A-13
4	44	43.1	612	4	US-09-252-991A-17516
5	43	42.2	21	4	US-09-337-227C-27
6	43	42.2	21	4	US-09-723-251A-27
7	43	42.2	480	2	US-08-828-488-8
8	43	42.2	480	4	US-09-299-689A-8
9	43	42.2	480	4	US-09-702-705-336
10	43	42.2	480	4	US-09-736-457-336
11	43	42.2	480	4	US-09-614-124B-336
12	43	42.2	480	4	US-09-671-325-336
13	43	42.2	480	4	US-09-589-184-336
14	43	42.2	582	3	US-08-194-560-2
15	42.5	41.7	190	1	US-08-816-241-1
16	42.5	41.7	190	3	US-09-128-395-1
17	41	40.2	2474	4	US-08-265-367C-3
18	41	40.2	2474	4	US-08-305-790B-4
19	40	39.2	374	4	US-09-721-870-24
20	40	39.2	660	4	US-09-907-794A-28
21	40	39.2	660	4	US-09-905-125A-28
22	40	39.2	660	4	US-09-902-775A-28
23	39.5	38.7	181	3	US-09-029-213B-22
24	39.5	38.7	286	4	US-09-328-352-5022
25	39	38.2	80	4	US-09-673-395A-447
26	39	38.2	131	2	US-08-834-655-9
27	39	38.2	131	3	US-08-834-033A-10

```

28 39 38.2 131 3 US-09-363-574-9 Sequence 9, Appli
29 39 38.2 131 4 US-09-363-526-9 Sequence 9, Appli
30 39 38.2 219 4 US-09-439-261-20 Sequence 20, Appl
31 39 38.2 219 4 US-09-227-613-19 Sequence 19, Appl
32 39 38.2 287 4 US-09-439-261-13 Sequence 13, Appl
33 39 38.2 287 4 US-09-227-613-14 Sequence 14, Appl
34 39 38.2 288 4 US-09-439-261-14 Sequence 14, Appl
35 39 38.2 288 4 US-09-439-261-16 Sequence 16, Appl
36 39 38.2 288 4 US-09-439-261-15 Sequence 15, Appl
37 39 38.2 288 4 US-09-227-613-17 Sequence 18, Appl
38 39 38.2 444 4 US-09-439-261-11 Sequence 11, Appl
39 39 38.2 444 4 US-09-439-261-43 Sequence 43, Appl
40 39 38.2 444 4 US-09-227-613-12 Sequence 12, Appl
41 39 38.2 444 4 US-09-227-613-42 Sequence 42, Appl
42 39 38.2 444 4 US-09-048-888-3 Sequence 3, Appli
43 39 38.2 445 4 US-09-439-261-39 Sequence 39, Appli
44 39 38.2 445 4 US-09-439-261-45 Sequence 45, Appli
45 39 38.2 932 4 US-09-328-352-7453 Sequence 7453, Ap

```

ALIGNMENTS

```

RESULT 1
US-09-137-223A-2
; Sequence 2, Application US/09137/223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; TITLE OF INVENTION: ZGCL-1
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; PRIOR FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

```

```

Query Match 45.1%; Score 46; DB 4; Length 478;
Best Local Similarity 40.0%; Pred. No. 47;
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;
Qy 1 DWVCNLFKNQWFCDL 15
Db 322 EWLSSVYKQWQWAFAML 336

```

```

RESULT 2
US-09-131-028A-3
; Sequence 3, Application US/09131/028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004 US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3

```

LENGTH: 215
TYPE: PRT
ORGANISM: Homo sapiens
US-09-131-028A-3

Query Match 44.1%; Score 45; DB 3; Length 215;
Best Local Similarity 42.9%; Pred. No. 29;
Matches 6; Conservative 4; Mismatches 0; Gaps 0;

QY 2 WVCNLFKNQWFCDL 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 3

US-09-131-028A-13
Sequence 13, Application US/09131028A
Patent No. 6287866
GENERAL INFORMATION:
APPLICANT: Abbott Laboratories
APPLICANT: Mukerji, Pradip
APPLICANT: Lemmel, Steven A.
APPLICANT: Leonard, Amanda Eun-Yeong
APPLICANT: Chaudhary, Sunita
TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
FILE REFERENCE: 6004.US.P1
CURRENT APPLICATION NUMBER: US/09/131,028A
CURRENT FILING DATE: 1998-08-07
PRIOR APPLICATION NUMBER: US 08/064,440
PRIOR FILING DATE: 1993-05-21
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 215
TYPE: PRT
ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match 44.1%; Score 45; DB 3; Length 215;
Best Local Similarity 42.9%; Pred. No. 29;
Matches 6; Conservative 4; Mismatches 0; Gaps 0;

QY 2 WVCNLFKNQWFCDL 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 4

US-09-252-991A-17516
Sequence 17516, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 17516
LENGTH: 612
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match 43.1%; Score 44; DB 4; Length 612;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WVCNLFKN 9
Db 54 WICNLFAN 61

RESULT 5

US-09-337-227C-27
Sequence 27, Application US/09337227C
Patent No. 6420518
GENERAL INFORMATION:
APPLICANT: Chen, Yvonne May-Yee
APPLICANT: Clark, Ross G.
APPLICANT: Cochran, Andrea G.
APPLICANT: Lowman, Henry B.
APPLICANT: Robinson, Iain C.A.F.
APPLICANT: Skelton, Nicholas J.
TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
FILE REFERENCE: P1071P2.rev
CURRENT APPLICATION NUMBER: US/09/337,227C
CURRENT FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: US 09/052,888
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: US 08/825,852
PRIOR FILING DATE: 1997-04-04
NUMBER OF SEQ ID NOS: 51
SEQ ID NO 27
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Sequence is synthesized
Patent No. 6420518
US-09-337-227C-27

Query Match 42.2%; Score 43; DB 4; Length 21;
Best Local Similarity 46.2%; Pred. No. 5.1;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFCDL 14
Db 3 WVCRAGPLQWLCE 15

RESULT 6

US-09-723-251A-27
Sequence 27, Application US/09723251A
Patent No. 6608028
GENERAL INFORMATION:
APPLICANT: Chen, Yvonne May-Yee
APPLICANT: Clark, Ross G.
APPLICANT: Cochran, Andrea G.
APPLICANT: Lowman, Henry B.
APPLICANT: Robinson, Iain C.A.F.
APPLICANT: Skelton, Nicholas J.
TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
FILE REFERENCE: P1071P2C1.2rev
CURRENT APPLICATION NUMBER: US/09/723,251A
CURRENT FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: US 09/337,227
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: US 08/825,852
PRIOR FILING DATE: 1997-04-04
NUMBER OF SEQ ID NOS: 51
SEQ ID NO 27
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Sequence is synthesized
Patent No. 6608028
US-09-723-251A-27

Query Match 42.2%; Score 43; DB 4; Length 21;

```

Best Local Similarity 46.2%; Pred. No. 5.1;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWFC D 14
Db 3 WVCRAGPLQWLCE 15

RESULT 7
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE:
; PRIOR APPLICATION DATA:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
; US-08-828-488-8

Query Match 42.2%; Score 43; DB 2; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFDV D 413

RESULT 8
US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
; US-09-299-689A-8

Query Match 42.2%; Score 43; DB 2; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFDV D 413

RESULT 9
US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336

```

```

Query Match 42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

```

```

Qy 1 DWVCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFDV D 413

```

```
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14
Db 400 DMACNFMGDEWFD 413

RESULT 10
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedwick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14
Db 400 DMACNFMGDEWFD 413

RESULT 11
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedwick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
```

```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14
Db 400 DMACNFMGDEWFD 413

RESULT 12
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedwick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14
Db 400 DMACNFMGDEWFD 413

RESULT 13
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedwick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589,184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
```


US-09-589-184-336

Query Match 42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 14
DB 400 DMACNFMGDEWFD 413

RESULT 14

US-08-194-560-2
; Sequence 2, Application US/08194560
; Patent No. 6255062
; GENERAL INFORMATION:
; APPLICANT: Campbell, Judith L.
; APPLICANT: Budd, Martin E.
; TITLE OF INVENTION: B-Type DNA Polymerases
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hobbach, Test, Albritton & Herbert
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/194,560
; FILING DATE: 14-FEB-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Trecartin, Richard F.
; REGISTRATION NUMBER: 31,801
; REFERENCE/DOCKET NUMBER: A-59515/RFT/RMS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 582 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-194-560-2

Query Match 42.2%; Score 43; DB 3; Length 582;
Best Local Similarity 40.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 322 DWLCXMSRNECTHL 336

RESULT 15

US-08-816-241-1
; Sequence 1, Application US/08816241
; Patent No. 5804185
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive

; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,241
; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT09
; CLONE: 1646823
US-08-816-241-1

Query Match 41.7%; Score 42.5; DB 1; Length 190;
Best Local Similarity 28.6%; Pred. No. 58;
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

QY 2 WVCNLFKNQ-----WFCDL 14
DB 50 WKTGVFRNQVDSETHCAERCFLSWFCD 77

Search completed: September 8, 2004, 14:31:53
Job time : 13.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-144

Perfect score: 108
Sequence: 1 DWCEWLKPQWYCNLS 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	108	100.0	16	11	US-09-825-517A-144
2	96	88.9	16	11	US-09-825-517A-146
3	95	88.0	16	11	US-09-825-517A-68
4	94	87.0	16	11	US-09-825-517A-103
5	92	85.2	16	11	US-09-825-517A-141
6	92	85.2	16	11	US-09-825-517A-148
7	90	83.3	16	11	US-09-825-517A-115
8	88	81.5	16	11	US-09-825-517A-126
9	87	80.6	16	11	US-09-825-517A-130
10	85	78.7	16	11	US-09-825-517A-54
11	85	78.7	16	11	US-09-825-517A-138
12	85	78.7	16	11	US-09-825-517A-143
13	84	77.8	16	11	US-09-825-517A-112
14	84	77.8	16	11	US-09-825-517A-122
15	84	77.8	16	11	US-09-825-517A-125

16	84	77.8	16	11	US-09-825-517A-140	Sequence 140, App
17	84	77.8	16	11	US-09-825-517A-142	Sequence 142, App
18	81	75.0	16	11	US-09-825-517A-100	Sequence 100, App
19	81	75.0	16	11	US-09-825-517A-101	Sequence 101, App
20	80	74.1	16	11	US-09-825-517A-104	Sequence 104, App
21	80	74.1	16	11	US-09-825-517A-137	Sequence 137, App
22	78	72.2	16	11	US-09-825-517A-65	Sequence 65, App1
23	78	72.2	16	11	US-09-825-517A-78	Sequence 78, App1
24	78	72.2	16	11	US-09-825-517A-114	Sequence 114, App
25	78	72.2	16	11	US-09-825-517A-147	Sequence 147, App
26	77	71.3	16	11	US-09-825-517A-56	Sequence 56, App1
27	77	71.3	16	11	US-09-825-517A-97	Sequence 97, App1
28	77	71.3	16	11	US-09-825-517A-117	Sequence 117, App
29	76	70.4	16	11	US-09-825-517A-59	Sequence 59, App1
30	76	70.4	16	11	US-09-825-517A-75	Sequence 75, App1
31	76	70.4	16	11	US-09-825-517A-86	Sequence 86, App1
32	76	70.4	16	11	US-09-825-517A-127	Sequence 127, App
33	76	70.4	16	11	US-09-825-517A-150	Sequence 150, App
34	75	69.4	16	11	US-09-825-517A-123	Sequence 123, App
35	74	68.5	16	11	US-09-825-517A-49	Sequence 49, App1
36	74	68.5	16	11	US-09-825-517A-105	Sequence 105, App
37	74	68.5	16	11	US-09-825-517A-109	Sequence 109, App
38	74	68.5	16	11	US-09-825-517A-113	Sequence 113, App
39	74	68.5	16	11	US-09-825-517A-151	Sequence 151, App
40	73	67.6	16	11	US-09-825-517A-80	Sequence 80, App1
41	72	66.7	16	11	US-09-825-517A-139	Sequence 139, App
42	71	65.7	16	11	US-09-825-517A-76	Sequence 76, App1
43	71	65.7	16	11	US-09-825-517A-88	Sequence 88, App1
44	71	65.7	16	11	US-09-825-517A-90	Sequence 90, App1
45	71	65.7	16	11	US-09-825-517A-91	Sequence 91, App1

ALIGNMENTS

RESULT 1
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match 100.0%; Score 108; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.1e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKPQWYCNLS 16
Db 1 DWCEWLKPQWYCNLS 16

RESULT 2
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

```

```

Query Match      88.9%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEWLKPQWYCNLSL 16
   ||||| |||||
Db 1 DWVCEWLKQWFCNPL 16

```

```

RESULT 3
US-09-825-517A-68
; Sequence 68, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

```

```

Query Match      88.0%; Score 95; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.4e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEWLKPQWYCNLSL 16
   ||||| |||||
Db 1 DWVCEWLKQWFCNPL 16

```

```

RESULT 4
US-09-825-517A-103
; Sequence 103, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 103
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-103

```

```

Query Match      87.0%; Score 94; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 1.9e-05;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEWLKPQWYCNLS 15
   :||||| |||||
Db 1 NWVCEWLKPQWWCNS 15

```

```

RESULT 5
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

```

```

Query Match      85.2%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.5e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEWLKPQWYCNLSL 16
   ||||| |||||
Db 1 DWVCEWLKQWFCNAL 16

```

```

RESULT 6
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT

```

; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-148

Query Match 85.2%; Score 92; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.5e-05;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
 ||||| |||:
 Db 1 DWVCEWLKHQWFCNAL 16

RESULT 7
 US-09-825-517A-115
 ; Sequence 115, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 115
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-115

Query Match 83.3%; Score 90; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 6.3e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
 ||||| |||||
 Db 1 DWVCEWFKPWICNLL 16

RESULT 8
 US-09-825-517A-126
 ; Sequence 126, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 126
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-126

Query Match 81.5%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00011;

Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 DWVCEWLKPQWYCNLSL 16
 ||||| |||:
 Db 1 DWVCEWLKNQWQCNVL 16

RESULT 9
 US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-130

Query Match 80.6%; Score 87; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 0.00015;
 Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
 ||||| |||:
 Db 1 DWVCEWFKQWFCNML 16

RESULT 10
 US-09-825-517A-54
 ; Sequence 54, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 54
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-54

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00027;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
 ||||| |||||
 Db 1 DWVCEWLKWQWACNML 16

RESULT 11

US-09-825-517A-138
 ; Sequence 136, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 138
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-138

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00027;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPOWYCNLSL 16
 |||||
 Db 1 DWVCEWLKQWACNML 16

RESULT 12

US-09-825-517A-143
 ; Sequence 143, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 143
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-143

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00027;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPOWYCNLSL 16
 |||||
 Db 1 DWVCEWLKQWACNML 16

RESULT 13

US-09-825-517A-112
 ; Sequence 112, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 112
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-112

Query Match 77.8%; Score 84; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00037;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPOWYCNLSL 16
 |||||
 Db 1 DWVCEWLKQWACNML 16

RESULT 14

US-09-825-517A-122
 ; Sequence 122, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 122
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-122

Query Match 77.8%; Score 84; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00037;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPOWYCNLSL 16
 |||||
 Db 1 DWVCEWLKQWACNML 16

RESULT 15

US-09-825-517A-125
 ; Sequence 125, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125
```

```
Query Match          77.8%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00037;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 1 DWVCEWLKPOWVCNSL 16
   |||||
Db 1 DWVCEWLKQWACNVL 16
```

```
Search completed: September 8, 2004, 15:58:38
Job time : 44.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-144
Perfect score: 108
Sequence: 1 DWCEWLKPQWYCNLS 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	42.6	802	4	US-09-147-236-4
2	46	42.6	802	4	US-09-522-474-4
3	45	41.7	71	4	US-09-621-976-5666
4	45	41.7	411	2	US-08-568-459A-20
5	45	41.7	411	2	US-08-487-826B-32
6	45	41.7	411	4	US-09-210-288-20
7	45	41.7	2710	2	US-08-568-459A-12
8	45	41.7	2710	2	US-08-487-826B-12
9	45	41.7	2710	4	US-09-210-288-12
10	45	41.7	3060	2	US-08-487-826B-14
11	44	40.7	101	4	US-09-621-976-3885
12	44	40.7	423	3	US-08-943-714-9
13	44	40.7	501	4	US-09-465-519-2
14	44	40.7	501	4	US-09-465-519-4
15	43	39.8	588	4	US-09-252-991A-31356
16	43	39.8	725	4	US-10-144-595-30
17	42	38.9	24	1	US-08-484-631-86
18	42	38.9	24	2	US-08-484-631-86
19	42	38.9	24	2	US-08-827-570-86
20	42	38.9	287	4	US-09-252-991A-30894
21	42	38.9	318	4	US-09-252-991A-27319
22	42	38.9	340	4	US-09-134-001C-3709
23	42	38.9	349	4	US-09-489-039A-10951
24	42	38.9	646	4	US-09-252-991A-23299
25	42	38.9	755	3	US-09-071-101-2
26	42	38.9	755	3	US-09-369-618-2
27	42	38.9	755	3	US-09-369-617-2

```

28      42      38.9      3031      1      US-07-689-008-2      Sequence 2, Appli
29      41.5      38.4      89      4      US-09-621-976-7155      Sequence 7155, Ap
30      41.5      38.4      92      4      US-09-107-532A-4069      Sequence 4069, Ap
31      41      38.0      63      4      US-09-497-491-47      Sequence 47, Appl
32      41      38.0      152      1      US-08-602-010A-16      Sequence 16, Appl
33      41      38.0      152      1      US-08-680-726A-16      Sequence 16, Appl
34      41      38.0      152      3      US-09-092-409-16      Sequence 16, Appl
35      41      38.0      170      4      US-09-252-991A-21369      Sequence 21369, A
36      41      38.0      305      1      US-08-680-726A-80      Sequence 80, Appl
37      41      38.0      305      3      US-09-092-409-80      Sequence 80, Appl
38      41      38.0      391      1      US-08-602-010A-6      Sequence 6, Appli
39      41      38.0      391      1      US-08-680-726A-6      Sequence 6, Appli
40      41      38.0      391      3      US-09-092-409-6      Sequence 6, Appli
41      41      38.0      399      4      US-09-252-991A-18242      Sequence 18242, A
42      41      38.0      416      1      US-08-464-523B-33      Sequence 33, Appl
43      41      38.0      535      4      US-09-543-681A-4798      Sequence 4798, Ap
44      41      38.0      617      3      US-09-314-242-2      Sequence 2, Appli
45      41      38.0      617      4      US-09-063-733A-46      Sequence 46, Appl

```

ALIGNMENTS

```

RESULT 1
; Sequence 4, Application US/09147236A
; Patent No. 6316251
; GENERAL INFORMATION:
; APPLICANT: TONOUCHI, Naoto
; APPLICANT: TSUCHIDA, Takayasu
; APPLICANT: YOSHINAGA, Fumihiko
; APPLICANT: TAHARA, Naoki
; APPLICANT: HAYASHI, Takahisa
; TITLE OF INVENTION: NOVEL GENE, GROUP OF GENES, AND NOVEL BETA-GLUCOSIDASE
; FILE REFERENCE: 6537-011-0PCT
; CURRENT APPLICATION NUMBER: US/09/147,236A
; CURRENT FILING DATE: 1999-04-08
; EARLIER APPLICATION NUMBER: PCT/JP97/03633
; EARLIER FILING DATE: 1997-10-09
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 802
; TYPE: PRT
; ORGANISM: Acetobacter xylinum
; FEATURE:
; OTHER INFORMATION: n at positions 15741 and 15767 may be a, g, t, or
; OTHER INFORMATION: c
US-09-147-236-4

```

```

Query Match      42.6%; Score 46; DB 4; Length 802;
Best Local Similarity 60.0%; Pred. No. 78;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      6 WLKPQWYCNLS 15
      |||||
Db      751 WLKPQWYTMHN 760

```

```

RESULT 2
; Sequence 4, Application US/09522474
; Patent No. 6573076
; GENERAL INFORMATION:
; APPLICANT: TONOUCHI, Naoto
; APPLICANT: TSUCHIDA, Takayasu
; APPLICANT: YOSHINAGA, Fumihiko
; APPLICANT: TAHARA, Naoki
; APPLICANT: HAYASHI, Takahisa
; TITLE OF INVENTION: NOVEL GENE, GROUP OF GENES, AND NOVEL BETA-GLUCOSIDASE
; FILE REFERENCE: 6537-011-0PCT
; CURRENT APPLICATION NUMBER: US/09/522,474
; CURRENT FILING DATE: 2000-03-09

```

```
; PRIOR APPLICATION NUMBER: US/09/147,236
; PRIOR FILING DATE: 1999-04-08
; PRIOR APPLICATION NUMBER: PCT/JP97/03633
; PRIOR FILING DATE: 1997-10-09
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 802
; TYPE: PRT
; ORGANISM: Acetobacter xylinum
; FEATURE:
; OTHER INFORMATION: n at positions 15741 and 15767 may be a, g, t, or
; OTHER INFORMATION: c
US-09-522-474-4

Query Match 42.6%; Score 46; DB 4; Length 802;
Best Local Similarity 60.0%; Pred. No. 78;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 6 WLKPQWYCN 15
||||| :
Db 751 WLKPDWYHN 760

RESULT 3
US-09-621-976-5666
; Sequence 5666, Application US/09621976
; Patent No. 6839063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24...-1
US-09-621-976-5666

Query Match 41.7%; Score 45; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 8.9;
Matches 6; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWVCEWLKPQWYC 13
||||| :
Db 54 DWNCVMEPHWLC 66

RESULT 4
US-08-568-459A-20
; Sequence 20, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
```

```
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/568,459A
; FILING DATE: 07-DEC-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-08-568-459A-20

Query Match 41.7%; Score 45; DB 2; Length 411;
Best Local Similarity 42.9%; Pred. No. 55;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY 2 WVCEWLKPQWYCN 15
||||| :
Db 229 WMTW--AEWYCKA 240

RESULT 5
US-08-487-826B-32
; Sequence 32, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
```

```
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-487-826B-32

Query Match 41.7%; Score 45; DB 2; Length 411;
Best Local Similarity 42.9%; Pred. No. 55;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKPOWYCN 15
| : | | : | | :
Db 229 WMTEW--AEWYCKA 240

RESULT 6
US-09-210-288-20
; Sequence 20, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO

; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-09-210-288-20

Query Match 41.7%; Score 45; DB 4; Length 411;
Best Local Similarity 42.9%; Pred. No. 55;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKPOWYCN 15
| : | | : | | :
Db 229 WMTEW--AEWYCKA 240

RESULT 7
US-08-568-459A-12
; Sequence 12, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/568,459A
; FILING DATE: 07-DEC-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-08-568-459A-12

Query Match 41.7%; Score 45; DB 2; Length 2710;
Best Local Similarity 42.9%; Pred. No. 3,9e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKPOWYCN 15
| : | | : | | :
Db 1138 WMTEW--AEWYCKA 1149

RESULT 8
```

US-08-487-826B-12
; Sequence 12, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CPI
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-08-487-826B-12

Query Match 41.7%; Score 45; DB 2; Length 2710;
Best Local Similarity 42.9%; Pred. No. 3.9e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKPQWYCNLS 15
|: ||| :||| :
Db 1138 WMTW--AEWYCKA 1149

RESULT 9
US-09-210-288-12
; Sequence 12, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear

STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-09-210-288-12

Query Match 41.7%; Score 45; DB 4; Length 2710;
Best Local Similarity 42.9%; Pred. No. 3.9e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKPQWYCNLS 15
|: ||| :||| :
Db 1138 WMTW--AEWYCKA 1149

RESULT 10
US-08-487-826B-14
; Sequence 14, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:

```
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29, 655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3060 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-487-826B-14

Query Match 41.7%; Score 45; DB 2; Length 3060;
Best Local Similarity 42.9%; Pred. No. 4.4e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY 2 WVCEWLKPQWYCN 15
Db 1136 WMTW--AEWYCKA 1147

RESULT 11
US-09-621-976-3885
; Sequence 3885, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 3885
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -23...-1
; NAME/KEY: UNSURE
; LOCATION: 17
; OTHER INFORMATION: Xaa = Pro,Arg
; NAME/KEY: UNSURE
; LOCATION: 16
; OTHER INFORMATION: Xaa = Ser,Trp
US-09-621-976-3885

Query Match 40.7%; Score 44; DB 4; Length 101;
Best Local Similarity 58.8%; Pred. No. 18;
Matches 10; Conservative 0; Mismatches 5; Indels 2; Gaps 1;

QY 2 WVCEWLKPQWYCN--NSL 16
Db 48 WWSGWLGPQQLYSNSL 64

RESULT 12
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berka, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
```

```
; APPLICANT: Dammann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NO. 61875780 No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 40.7%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 79;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWL 7
Db 340 DWICNWL 346

RESULT 13
US-09-465-519-2
; Sequence 2, Application US/09465519
; Patent No. 6403355
; GENERAL INFORMATION:
; APPLICANT: HAGIHARA, Hiroshi
; APPLICANT: KITAYAMA, Kaori
; APPLICANT: HAYASHI, Yasuhiro
; APPLICANT: IGARASHI, Kazuaki
; APPLICANT: ENDO, Keiji
; APPLICANT: OZAKI, Katsuya
; TITLE OF INVENTION: NOVEL AMYLASES
; FILE REFERENCE: 2173-0118P
; CURRENT APPLICATION NUMBER: US/09/465,519
; CURRENT FILING DATE: 1999-12-16
; EARLIER APPLICATION NUMBER: 10-362487 JAPAN
; EARLIER FILING DATE: 1998-12-21
; EARLIER APPLICATION NUMBER: 10-362488 JAPAN
; EARLIER FILING DATE: 1998-12-21
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Bacillus sp.
US-09-465-519-2

Query Match 40.7%; Score 44; DB 4; Length 501;
```

Best Local Similarity 46.7%; Pred. No. 94;
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Search completed: September 8, 2004, 14:31:53
Job time : 14.3 secs

Qy 2 WVCEWLKPQWYCNLSL 16
Db 359 WVADWFKPLAYATIL 373

RESULT 14

US-09-465-519-4
; Sequence 4, Application US/09465519
; Patent No. 6403355
; GENERAL INFORMATION:
; APPLICANT: HAGIHARA, Hiroshi
; APPLICANT: KITAYAMA, Kaori
; APPLICANT: HAYASHI, Yasuhiro
; APPLICANT: IGARASHI, Kazuaki
; APPLICANT: ENDO, Keiji
; APPLICANT: OZAKI, Katsuya
; TITLE OF INVENTION: NOVEL AMYLASES
; FILE REFERENCE: 2173-0118p
; CURRENT APPLICATION NUMBER: US/09/465,519
; CURRENT FILING DATE: 1999-12-16
; EARLIER APPLICATION NUMBER: 10-362487 JAPAN
; EARLIER FILING DATE: 1998-12-21
; EARLIER APPLICATION NUMBER: 10-362488 JAPAN
; EARLIER FILING DATE: 1998-12-21
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Bacillus sp.
US-09-465-519-4

Query Match 40.7%; Score 44; DB 4; Length 501;
Best Local Similarity 46.7%; Pred. No. 94;
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy 2 WVCEWLKPQWYCNLSL 16
Db 359 WVADWFKPLAYATIL 373

RESULT 15

US-09-252-991A-31356
; Sequence 31356, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 31356
; LENGTH: 588
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31356

Query Match 39.8%; Score 43; DB 4; Length 588;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCEWLKPQ 10
Db 330 WLCVWLWPQ 338

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-143

Perfect score: 104
Sequence: 1 DWVCEWLKMQWACNML 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	%		Query Match	Length	DB ID	Description
	Score	Match				
1	104	100.0	16	11	US-09-825-517A-54	Sequence 54, Appl
2	104	100.0	16	11	US-09-825-517A-138	Sequence 138, Appl
3	104	100.0	16	11	US-09-825-517A-143	Sequence 143, Appl
4	100	96.2	16	11	US-09-825-517A-112	Sequence 112, Appl
5	100	96.2	16	11	US-09-825-517A-122	Sequence 122, Appl
6	100	96.2	16	11	US-09-825-517A-125	Sequence 125, Appl
7	100	96.2	16	11	US-09-825-517A-140	Sequence 140, Appl
8	100	96.2	16	11	US-09-825-517A-142	Sequence 142, Appl
9	92	88.5	16	11	US-09-825-517A-141	Sequence 141, Appl
10	90	86.5	16	11	US-09-825-517A-49	Sequence 49, Appl
11	90	86.5	16	11	US-09-825-517A-151	Sequence 151, Appl
12	89	85.6	16	11	US-09-825-517A-101	Sequence 101, Appl
13	88	84.6	16	11	US-09-825-517A-130	Sequence 130, Appl
14	86	82.7	16	11	US-09-825-517A-126	Sequence 126, Appl
15	86	82.7	16	11	US-09-825-517A-146	Sequence 146, Appl

SUMMARIES

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16

Db 1 DWVCEWLKMQWACNML 16

RESULT 2

US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

16 85 81.7 16 11 US-09-825-517A-115 Sequence 115, App
17 85 81.7 16 11 US-09-825-517A-144 Sequence 144, App
18 85 81.7 16 11 US-09-825-517A-148 Sequence 148, App
19 80 76.9 16 11 US-09-825-517A-68 Sequence 68, Appl
20 80 76.9 16 11 US-09-825-517A-105 Sequence 105, App
21 78 75.0 16 11 US-09-825-517A-117 Sequence 117, App
22 76 73.1 16 11 US-09-825-517A-80 Sequence 80, Appl
23 76 73.1 16 11 US-09-825-517A-90 Sequence 90, Appl
24 76 73.1 16 11 US-09-825-517A-103 Sequence 103, App
25 76 73.1 16 11 US-09-825-517A-106 Sequence 106, App
26 76 73.1 16 11 US-09-825-517A-107 Sequence 107, App
27 76 73.1 16 11 US-09-825-517A-113 Sequence 113, App
28 76 73.1 16 11 US-09-825-517A-147 Sequence 147, App
29 75 72.1 16 11 US-09-825-517A-75 Sequence 75, Appl
30 75 72.1 16 11 US-09-825-517A-86 Sequence 86, Appl
31 75 72.1 16 11 US-09-825-517A-86 Sequence 86, Appl
32 75 72.1 16 11 US-09-825-517A-135 Sequence 135, App
33 75 72.1 16 11 US-09-825-517A-139 Sequence 139, App
34 74 71.2 16 11 US-09-825-517A-59 Sequence 59, Appl
35 74 71.2 16 11 US-09-825-517A-104 Sequence 104, App
36 74 71.2 16 11 US-09-825-517A-127 Sequence 127, App
37 74 71.2 16 11 US-09-825-517A-137 Sequence 137, App
38 73 70.2 16 11 US-09-825-517A-67 Sequence 67, Appl
39 73 70.2 16 11 US-09-825-517A-72 Sequence 72, Appl
40 73 70.2 16 11 US-09-825-517A-82 Sequence 82, Appl
41 72 69.2 16 11 US-09-825-517A-65 Sequence 65, Appl
42 72 69.2 16 11 US-09-825-517A-78 Sequence 78, Appl
43 72 69.2 16 11 US-09-825-517A-150 Sequence 150, App
44 71 68.3 16 11 US-09-825-517A-91 Sequence 91, Appl
45 71 68.3 16 11 US-09-825-517A-114 Sequence 114, App

ALIGNMENTS

RESULT 1
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match      100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWVCEWLKMQWACNML 16
Db      1 DWVCEWLKMQWACNML 16

RESULT 3
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match      100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWVCEWLKMQWACNML 16
Db      1 DWVCEWLKMQWACNML 16

RESULT 4
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match      96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWVCEWLKMQWACNML 16
Db      1 DWVCEWLKMQWACNML 16

RESULT 5
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match      96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWVCEWLKMQWACNML 16
Db      1 DWVCEWLKMQWACNML 16

RESULT 6
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
```


; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-125

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 1.1e-06;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
 |||||:|||||:
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 7
 US-09-825-517A-140
 ; Sequence 140, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 140
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-140

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 1.1e-06;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
 |||||:|||||:
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 8
 US-09-825-517A-142
 ; Sequence 142, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 142
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-142

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 1.1e-06;

Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
 |||||:|||||:
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 9
 US-09-825-517A-141
 ; Sequence 141, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 141
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-141

Query Match 88.5%; Score 92; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 1.3e-05;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
 |||||:|||||:
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 10
 US-09-825-517A-49
 ; Sequence 49, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 49
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-49

Query Match 86.5%; Score 90; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 2.3e-05;
 Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
 |||||:|||||:
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 11

US-09-825-517A-151
 ; Sequence 151, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 151
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-151

Query Match 86.5%; Score 90; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 2.3e-05;
 Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNML 16
 DB 1 DWVCEFLKQWACNVL 16

RESULT 12

US-09-825-517A-101
 ; Sequence 101, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 101
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-101

Query Match 85.6%; Score 89; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.1e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNML 16
 DB 1 DWVCEWSKQWACNML 16

RESULT 13

US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-130

Query Match 84.6%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 4.2e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNML 16
 DB 1 DWVCEWFKQWACNML 16

RESULT 14

US-09-825-517A-126
 ; Sequence 126, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 126
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-126

Query Match 82.7%; Score 86; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 7.8e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNML 16
 DB 1 DWVCEWLKQWACNVL 16

RESULT 15

US-09-825-517A-146
 ; Sequence 146, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
```

```
Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.8e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWVCEWLKQWACNML 16
      |||||
Db      1 DWVCEWLKQWFCNSL 16
      |||||
```

```
Search completed: September 8, 2004, 15:58:37
Job time : 43.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517a-143
Perfect score: 104
Sequence: 1 DWVCEWLKQWACNML 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	44.2	677	3	US-09-061-768A-4
2	46	44.2	677	4	US-09-764-246-4
3	45	43.3	71	4	US-09-621-976-5666
4	45	43.3	1129	4	US-09-252-991A-28552
5	44.5	42.8	491	1	US-09-640-305-4
6	44.5	42.8	491	1	US-08-360-673-4
7	44	42.3	89	4	US-09-621-976-7155
8	44	42.3	423	3	US-08-943-714-9
9	43	41.3	428	4	US-09-489-039A-12688
10	42	40.4	21	4	US-09-337-227C-27
11	42	40.4	21	4	US-09-723-251A-27
12	42	40.4	393	1	US-08-689-974-4
13	42	40.4	393	3	US-09-558-376-4
14	42	40.4	989	3	US-09-110-517-4
15	41	39.4	63	4	US-09-497-491-47
16	41	39.4	170	4	US-09-252-991A-21369
17	41	39.4	208	4	US-09-352-991A-32166
18	41	39.4	382	4	US-09-352-991A-25095
19	41	39.4	1956	3	US-08-843-417-10
20	41	39.4	1956	4	US-09-527-013-10
21	40.5	38.9	20	2	US-07-894-063A-6
22	40.5	38.9	30	1	US-08-262-037-16
23	40.5	38.9	37	1	US-08-262-037-95
24	40.5	38.9	48	1	US-08-262-037-96
25	40.5	38.9	106	3	US-08-444-818-24
26	40.5	38.9	176	3	US-08-444-818-28
27	40.5	38.9	360	4	US-08-850-328-4
28	40.5	38.9	38.9	3	US-08-867-611-6
29	40.5	38.9	38.9	4	US-09-690-359-6
30	40.5	38.9	38.9	5	PCT-US92-06965A-11
31	40.5	38.9	798	3	US-08-867-611-36
32	40.5	38.9	798	4	US-09-690-359-36
33	40.5	38.9	859	3	US-08-444-818-30
34	40.5	38.9	1040	4	US-10-104-966-9
35	40.5	38.9	1786	3	US-08-444-818-54
36	40.5	38.9	2261	3	US-08-444-818-66
37	40.5	38.9	2436	3	US-08-444-818-75
38	40.5	38.9	2722	3	US-08-444-818-89
39	40.5	38.9	2894	2	US-08-466-975A-23
40	40.5	38.9	2894	2	US-08-391-671A-23
41	40.5	38.9	2894	3	US-08-467-902A-23
42	40.5	38.9	2894	3	US-09-275-265-23
43	40.5	38.9	2894	4	US-09-941-611-23
44	40.5	38.9	2955	2	US-08-443-260-3
45	40.5	38.9	2955	3	US-08-442-805A-3

Sequence 6, Appli
Sequence 6, Appli
Sequence 11, Appli
Sequence 36, Appli
Sequence 36, Appli
Sequence 9, Appli
Sequence 30, Appli
Sequence 54, Appli
Sequence 66, Appli
Sequence 75, Appli
Sequence 89, Appli
Sequence 23, Appli
Sequence 23, Appli
Sequence 23, Appli
Sequence 23, Appli
Sequence 3, Appli
Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061,768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: NONE
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; US-09-061-768A-4

Query Match 44.2%; Score 46; DB 3; Length 677;
Best Local Similarity 40.0%; Pred. No. 44;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWLKQW 11

```

; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24..-1
US-09-621-976-5666

Query Match 43.3%; Score 45; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 5.7;
Matches 6; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWAC 13
   |||||
DB 54 DWNVCVMEPHHWC 66

RESULT 4
US-09-252-991A-28552
; Sequence 28552, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28552
; LENGTH: 1129
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28552

Query Match 43.3%; Score 45; DB 4; Length 1129;
Best Local Similarity 50.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 0; Mismatches 6; Indels 0; Gaps 0

QY 2 WVCEWLKMQWAC 13
   |||||
DB 933 WPSNWLPMWMC 944

RESULT 5
US-09-640-305-4
; Sequence 4, Application US/09640305
; Patent No. RE37447
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; Fournier, Alain
; Yen, Patrice
; TITLE OF INVENTION: MODIFIED KLUTVEROMYCES YEASTS, THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd. 3c43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

```

```

; APPLICATION NUMBER: US/09/640,305
; FILING DATE: 16-AUG-2000
; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US/08/360,673
;   FILING DATE: 06-FEB-1995
;   APPLICATION NUMBER: WO PCT/FR93/00623
;   FILING DATE: 23-JUN-1993
;   APPLICATION NUMBER: FR 92/07785
;   FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
;   NAME: Smith, Julie K.
;   REGISTRATION NUMBER: 38,619
;   REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (610)454-3839
;   TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 491 amino acids
;     TYPE: amino acid
;     TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-640-305-4
;
; Query Match          42.8%; Score 44.5; DB 1; Length 491;
; Best Local Similarity 33.3%; Pred. No. 52;
; Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;
;
; QY      1  DWVCEWL-----KQWACN 14
;           |::|||
; Db      405 DYICNLGNLAWTEKLEWRYN 425
;
; RESULT 6
; US-08-360-673-4
;   Sequence 4, Application US/08360673
;   Patent No. 5679544
;   GENERAL INFORMATION:
;     APPLICANT: Fleer, Reinhard
;     APPLICANT: Fournier, Alain
;     APPLICANT: Yeh, Patrice
;   TITLE OF INVENTION: MODIFIED KLUYVEROMYCES YEASTS, THEIR
;   TITLE OF INVENTION: PREPARATION AND USE
;   NUMBER OF SEQUENCES: 17
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Rhone-Poulenc Rorer Inc.
;     STREET: 500 Arcola Rd. 3C43
;     CITY: Collegeville
;     STATE: PA
;     COUNTRY: USA
;     ZIP: 19002
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: Patentin Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/08/360,673
;     FILING DATE:
;   CLASSIFICATION: 435
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: WO PCT/FR93/00623
;     FILING DATE: 23-JUN-1993
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: FR 92/07785
;     FILING DATE: 25-JUN-1992
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Smith, Julie K.
;     REGISTRATION NUMBER: 38,619
;     REFERENCE/DOCKET NUMBER: ST92040-US
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE: (610)454-3839
;
; APPLICATION NUMBER: US/09/640,305
; FILING DATE: 16-AUG-2000
; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US/08/360,673
;   FILING DATE: 06-FEB-1995
;   APPLICATION NUMBER: WO PCT/FR93/00623
;   FILING DATE: 23-JUN-1993
;   APPLICATION NUMBER: FR 92/07785
;   FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
;   NAME: Smith, Julie K.
;   REGISTRATION NUMBER: 38,619
;   REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (610)454-3839
;   TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 491 amino acids
;     TYPE: amino acid
;     TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-360-673-4
;
; Query Match          42.8%; Score 44.5; DB 1; Length 491;
; Best Local Similarity 33.3%; Pred. No. 52;
; Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;
;
; QY      1  DWVCEWL-----KQWACN 14
;           |::|||
; Db      405 DYICNLGNLAWTEKLEWRYN 425
;
; RESULT 7
; US-09-621-976-7155
;   Sequence 7155, Application US/09621976
;   Patent No. 6639063
;   GENERAL INFORMATION:
;     APPLICANT: Dumas Milne Edwards, J.B.
;     APPLICANT: Jobert, S.
;     APPLICANT: Giordano, J.Y.
;   TITLE OF INVENTION: ESTs and Encoded Human Proteins.
;   FILE REFERENCE: GENSET.054PR2
;   CURRENT APPLICATION NUMBER: US/09/621,976
;   CURRENT FILING DATE: 2000-07-21
;   NUMBER OF SEQ ID NOS: 19335
;   SOFTWARE: Patent.pm
;   SEQ ID NO 7155
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
; US-09-621-976-7155
;
; Query Match          42.3%; Score 44; DB 4; Length 89;
; Best Local Similarity 45.5%; Pred. No. 10;
; Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
;
; QY      1  DWVCEWLKQW 11
;           ||::|||
; Db      45 DWLADWWKVGW 55
;
; RESULT 8
; US-08-943-714-9
;   Sequence 9, Application US/08943714
;   Patent No. 6187578
;   GENERAL INFORMATION:
;     APPLICANT: Blinkovsky, Alexander
;     APPLICANT: Berkka, Randy
;     APPLICANT: Rey, Michael
;     APPLICANT: Golightly, Elizabeth
;     APPLICANT: Klotz, Alan
;     APPLICANT: Mathisen, Thomas Erik
;     APPLICANT: Dambmann, Claus
;   TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
;   TITLE OF INVENTION: Encoding Same
;   NUMBER OF SEQUENCES: 12
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: No. 6187578o No. 6187578disk of No. 6187578th America, Inc.
;     STREET: 405 Lexington Avenue
;     CITY: New York
;     STATE: NY
;     COUNTRY: USA
;     ZIP: 10174
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Diskette
;     COMPUTER: IBM Compatible
;     OPERATING SYSTEM: DOS
;
; APPLICATION NUMBER: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 491 amino acids
;     TYPE: amino acid
;     TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-360-673-4
;
; Query Match          42.8%; Score 44.5; DB 1; Length 491;
; Best Local Similarity 33.3%; Pred. No. 52;
; Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;
;
; QY      1  DWVCEWL-----KQWACN 14
;           |::|||
; Db      405 DYICNLGNLAWTEKLEWRYN 425
;
; RESULT 7
; US-09-621-976-7155
;   Sequence 7155, Application US/09621976
;   Patent No. 6639063
;   GENERAL INFORMATION:
;     APPLICANT: Dumas Milne Edwards, J.B.
;     APPLICANT: Jobert, S.
;     APPLICANT: Giordano, J.Y.
;   TITLE OF INVENTION: ESTs and Encoded Human Proteins.
;   FILE REFERENCE: GENSET.054PR2
;   CURRENT APPLICATION NUMBER: US/09/621,976
;   CURRENT FILING DATE: 2000-07-21
;   NUMBER OF SEQ ID NOS: 19335
;   SOFTWARE: Patent.pm
;   SEQ ID NO 7155
;   LENGTH: 89
;   TYPE: PRT
;   ORGANISM: Homo sapiens
; US-09-621-976-7155
;
; Query Match          42.3%; Score 44; DB 4; Length 89;
; Best Local Similarity 45.5%; Pred. No. 10;
; Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
;
; QY      1  DWVCEWLKQW 11
;           ||::|||
; Db      45 DWLADWWKVGW 55
;
; RESULT 8
; US-08-943-714-9
;   Sequence 9, Application US/08943714
;   Patent No. 6187578
;   GENERAL INFORMATION:
;     APPLICANT: Blinkovsky, Alexander
;     APPLICANT: Berkka, Randy
;     APPLICANT: Rey, Michael
;     APPLICANT: Golightly, Elizabeth
;     APPLICANT: Klotz, Alan
;     APPLICANT: Mathisen, Thomas Erik
;     APPLICANT: Dambmann, Claus
;   TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
;   TITLE OF INVENTION: Encoding Same
;   NUMBER OF SEQUENCES: 12
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: No. 6187578o No. 6187578disk of No. 6187578th America, Inc.
;     STREET: 405 Lexington Avenue
;     CITY: New York
;     STATE: NY
;     COUNTRY: USA
;     ZIP: 10174
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Diskette
;     COMPUTER: IBM Compatible
;     OPERATING SYSTEM: DOS

```

```

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA: US/08/943,714
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-943-714-9
;
Query Match 42.3%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWL 7
Db 340 DWICNWL 346

RESULT 9
US-09-489-039A-12688
; Sequence 12688, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.3%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

QY 1 DWVCEWLK-MQW 11
Db 110 NWIFWAKEMQW 122

RESULT 10
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 11
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 12
US-08-689-974-4
; Sequence 4, Application US/08689974
; Patent No. 5776732
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
;

```

```

; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 11
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 12
US-08-689-974-4
; Sequence 4, Application US/08689974
; Patent No. 5776732
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
;

```


ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/689,974
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 459890
US-08-689-974-4

Query Match 40.4%; Score 42; DB 1; Length 393;
Best Local Similarity 41.2%; Pred. No. 97;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNML 16
| : | | | : | : | : |
Db 360 WLAWFVKMGSSWLCILL 376

RESULT 13
US-09-058-376-4
Sequence 4, Application US/09058376
Patent No. 6080841
GENERAL INFORMATION:
APPLICANT: Au-Young, Janice
APPLICANT: Hawkins, Phillip R.
APPLICANT: Murray, Lynn E.
TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/058,376
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/689,974
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 459890
US-09-058-376-4

Query Match 40.4%; Score 42; DB 3; Length 393;
Best Local Similarity 41.2%; Pred. No. 97;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNML 16
| : | | | : | : | : |
Db 360 WLAWFVKMGSSWLCILL 376

RESULT 14
US-09-110-517-4
Sequence 4, Application US/09110517A
Patent No. 6248520
GENERAL INFORMATION:
APPLICANT: Roeder, Robert G
APPLICANT: Pondell, Joseph D
APPLICANT: Yuan, Chao X
APPLICANT: Ito, Mitsuhiro
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING NUCLEAR HORMONE
TITLE OF INVENTION: RECEPTOR COACTIVATORS AND USES THEREOF
FILE REFERENCE: 600-1-224
CURRENT APPLICATION NUMBER: US/09/110,517A
CURRENT FILING DATE: 1998-07-06
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 989
TYPE: PRT
ORGANISM: Homo sapiens
US-09-110-517-4

Query Match 40.4%; Score 42; DB 3; Length 989;
Best Local Similarity 50.0%; Pred. No. 2.6e+02;
Matches 7; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 WVCEWLKMOWACNM 15
| : | | | : | : | : |
Db 14 WKERWSDYQWAINM 27

RESULT 15
US-09-497-491-47
Sequence 47, Application US/09497491
Patent No. 6630573
GENERAL INFORMATION:
APPLICANT: Walker, Craig
APPLICANT: Shetty, Reshma
APPLICANT: Oliveira, Baldomero M.
APPLICANT: Hooper, David
APPLICANT: Jacobsen, Richard
APPLICANT: Steele, Doug
APPLICANT: Jones, Robert M.
TITLE OF INVENTION: Tau-Conotoxin Peptides
FILE REFERENCE: Tau-Conopeptides
CURRENT APPLICATION NUMBER: US/09/497,491
CURRENT FILING DATE: 2000-02-04
EARLIER APPLICATION NUMBER: US 60/118,642

; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: Patentin ver. 2.0
; SEQ ID NO 47
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Conus gloriamaris
US-09-497-491-47

Query Match 39.4%; Score 41; DB 4; Length 63;
Best Local Similarity 83.3%; Pred. NO. 20;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 DWVCEW 6
Db 57 DMCCEW 62

Search completed: September 8, 2004, 14:31:52
Job time : 13.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-142

Perfect score: 103

Sequence: 1 DWVCWLKQWACNVL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

```

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	16	11	US-09-825-517A-125
2	103	100.0	16	11	US-09-825-517A-142
3	102	99.0	16	11	US-09-825-517A-112
4	102	99.0	16	11	US-09-825-517A-122
5	102	99.0	16	11	US-09-825-517A-140
6	100	97.1	16	11	US-09-825-517A-54
7	100	97.1	16	11	US-09-825-517A-138
8	100	97.1	16	11	US-09-825-517A-143
9	93	90.3	16	11	US-09-825-517A-49
10	93	90.3	16	11	US-09-825-517A-141
11	93	90.3	16	11	US-09-825-517A-151
12	90	87.4	16	11	US-09-825-517A-101
13	89	86.4	16	11	US-09-825-517A-126
14	86	83.5	16	11	US-09-825-517A-148
15	85	82.5	16	11	US-09-825-517A-146

16	84	81.6	16	11	US-09-825-517A-115	Sequence 115, App
17	84	81.6	16	11	US-09-825-517A-130	Sequence 130, App
18	84	81.6	16	11	US-09-825-517A-144	Sequence 144, App
19	80	77.7	16	11	US-09-825-517A-68	Sequence 68, App1
20	79	76.7	16	11	US-09-825-517A-80	Sequence 80, App1
21	79	76.7	16	11	US-09-825-517A-147	Sequence 147, App
22	78	75.7	16	11	US-09-825-517A-75	Sequence 75, App1
23	78	75.7	16	11	US-09-825-517A-76	Sequence 76, App1
24	78	75.7	16	11	US-09-825-517A-107	Sequence 107, App
25	78	75.7	16	11	US-09-825-517A-117	Sequence 117, App
26	78	75.7	16	11	US-09-825-517A-135	Sequence 135, App
27	77	74.8	16	11	US-09-825-517A-59	Sequence 59, App1
28	77	74.8	16	11	US-09-825-517A-127	Sequence 127, App
29	77	74.8	16	11	US-09-825-517A-139	Sequence 139, App
30	76	73.8	16	11	US-09-825-517A-103	Sequence 103, App
31	76	73.8	16	11	US-09-825-517A-104	Sequence 104, App
32	76	73.8	16	11	US-09-825-517A-105	Sequence 105, App
33	76	73.8	16	11	US-09-825-517A-113	Sequence 113, App
34	76	73.8	16	11	US-09-825-517A-137	Sequence 137, App
35	75	72.8	16	11	US-09-825-517A-67	Sequence 67, App1
36	75	72.8	16	11	US-09-825-517A-82	Sequence 82, App1
37	75	72.8	16	11	US-09-825-517A-90	Sequence 90, App1
38	75	72.8	16	11	US-09-825-517A-106	Sequence 106, App
39	74	71.8	16	11	US-09-825-517A-65	Sequence 65, App1
40	74	71.8	16	11	US-09-825-517A-86	Sequence 86, App1
41	74	71.8	16	11	US-09-825-517A-118	Sequence 118, App
42	74	71.8	16	11	US-09-825-517A-150	Sequence 150, App
43	73	70.9	16	11	US-09-825-517A-116	Sequence 116, App
44	72	69.9	16	11	US-09-825-517A-72	Sequence 72, App1
45	72	69.9	16	11	US-09-825-517A-78	Sequence 78, App1

ALIGNMENTS

RESULT 1
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.8e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCWLKQWACNVL 16
Db 1 DWVCWLKQWACNVL 16

RESULT 2

US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.8e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 3
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 4
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 5
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 6
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 7
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 8
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 9
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.2e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 10
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 8.2e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

```

RESULT 11

US-09-825-517A-151
 ; Sequence 151, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 151
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-151

Query Match 90.3%; Score 93; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 8.2e-06;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
 Db 1 DWVCEFLKQWACNVL 16

RESULT 12

US-09-825-517A-101
 ; Sequence 101, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 101
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-101

Query Match 87.4%; Score 90; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 2.1e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
 Db 1 DWVCEWSKQWACNVL 16

RESULT 13

US-09-825-517A-126
 ; Sequence 126, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 126
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-126

Query Match 86.4%; Score 89; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 2.8e-05;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
 Db 1 DWVCEWLKQWACNVL 16

RESULT 14

US-09-825-517A-148
 ; Sequence 148, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 148
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-148

Query Match 83.5%; Score 86; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 7e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
 Db 1 DWVCEWLKQWACNVL 16

RESULT 15

US-09-825-517A-146
 ; Sequence 146, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
```

```
Query Match      82.5%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.5e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 DWVCEWLKQWACNVL 16
         ||||| |||||
Db      1 DWVCEWLKQWFCNSL 16
```

```
Search completed: September 8, 2004, 15:58:37
Job time : 43.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-142

Perfect score: 103

Sequence: 1 DWCEWLKQWACNVL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*

2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*

3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*

4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*

5: /cgn2_6/ptodata/2/iaa/PTUS_COMB.pep.*

6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	44.7	677	3	US-09-061-768A-4
2	46	44.7	677	4	US-09-764-246-4
3	46	44.7	1129	4	US-09-252-991A-28552
4	45	43.7	71	4	US-09-621-976-5666
5	44.5	43.2	491	1	US-09-640-305-4
6	44.5	43.2	491	1	US-08-360-673-4
7	44	42.7	89	4	US-09-621-976-7155
8	44	42.7	423	3	US-08-943-714-9
9	43	41.7	428	4	US-09-489-039A-12688
10	43	41.7	501	2	US-08-288-508C-2
11	43	41.7	501	4	US-08-981-490B-1
12	42	40.8	21	4	US-09-337-227C-27
13	42	40.8	21	4	US-09-723-251A-27
14	41	39.8	63	4	US-09-497-491-47
15	41	39.8	170	4	US-09-252-991A-21369
16	41	39.8	208	4	US-09-252-991A-32166
17	41	39.8	382	4	US-09-252-991A-25095
18	41	39.8	393	1	US-08-689-974-4
19	41	39.8	393	3	US-09-058-376-4
20	41	39.8	1956	3	US-08-843-417-10
21	41	39.8	1956	4	US-09-527-013-10
22	40.5	39.3	20	2	US-07-894-063A-6
23	40.5	39.3	30	1	US-08-262-037-16
24	40.5	39.3	38	1	US-08-262-037-16
25	40.5	39.3	47	1	US-08-262-037-96
26	40.5	39.3	106	3	US-08-444-818-24
27	40.5	39.3	176	3	US-08-444-818-28

28 40.5 39.3 360 4 US-08-850-328-4 Sequence 4, Appli
29 40.5 39.3 516 3 US-08-867-611-6 Sequence 6, Appli
30 40.5 39.3 516 4 US-09-690-359-6 Sequence 6, Appli
31 40.5 39.3 516 5 PCT-US92-06965A-11 Sequence 11, Appli
32 40.5 39.3 798 3 US-08-867-611-36 Sequence 36, Appli
33 40.5 39.3 798 4 US-09-690-359-36 Sequence 36, Appli
34 40.5 39.3 859 3 US-08-444-818-30 Sequence 30, Appli
35 40.5 39.3 1040 4 US-10-104-966-9 Sequence 9, Appli
36 40.5 39.3 1786 3 US-08-444-818-54 Sequence 54, Appli
37 40.5 39.3 2261 3 US-08-444-818-66 Sequence 66, Appli
38 40.5 39.3 2436 3 US-08-444-818-75 Sequence 75, Appli
39 40.5 39.3 2772 3 US-08-444-818-89 Sequence 89, Appli
40 40.5 39.3 2894 2 US-08-466-375A-23 Sequence 23, Appli
41 40.5 39.3 2894 2 US-08-391-671A-23 Sequence 23, Appli
42 40.5 39.3 2894 3 US-08-467-302A-23 Sequence 23, Appli
43 40.5 39.3 2894 3 US-09-275-265-23 Sequence 23, Appli
44 40.5 39.3 2894 4 US-09-941-611-23 Sequence 23, Appli
45 40.5 39.3 2955 2 US-08-443-260-3 Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
COMPUTER: IBM PC/XT/AT compatible
OPERATING SYSTEM: Windows 3.1
SOFTWARE: WORD PERFECT 6.1 and ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/061,768A
FILING DATE: APRIL 16, 1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA: NONE
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: ARLES A. TAYLOR, JR.
REGISTRATION NUMBER: 39,395
REFERENCE/DOCKET NUMBER: 1242/5
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 493-8000
TELEFAX: (919) 419-0383
TELEX:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 677 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
US-09-061-768A-4

Query Match 44.7%; Score 46; DB 3; Length 677;
Best Local Similarity 40.0%; Pred. No. 44;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 WVCEWLKQW 11

Db 88 WFCRWFLEW 97

RESULT 2
US-09-764-246-4
; Sequence 4, Application US/09764246
; Patent No. 6649355
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; BOEGLIN, WILLIAM E.
; JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/764,246
; FILING DATE: 17-Jan-2001
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-764-246-4

Query Match 44.7%; Score 46; DB 4; Length 677;
Best Local Similarity 40.0%; Pred. No. 44;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQW 11
Db 88 WFCRWFLEW 97

RESULT 3
US-09-252-991A-28552
; Sequence 28552, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28552
; LENGTH: 1129
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28552

Query Match 44.7%; Score 46; DB 4; Length 1129;
Best Local Similarity 40.0%; Pred. No. 76;
Matches 6; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWACNVL 16
Db 933 WFSNWLFPSMWCRAV 947

RESULT 4
US-09-621-976-5666
; Sequence 5666, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET 054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24...-1
US-09-621-976-5666

Query Match 43.7%; Score 45; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 5.6;
Matches 6; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWAC 13
Db 54 DWNCVWEPHHLWC 66

RESULT 5
US-09-640-305-4
; Sequence 4, Application US/09640305
; Patent No. RE37447
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; Fournier, Alain
; Yeh, Patrice
; TITLE OF INVENTION: MODIFIED KLUYVEROMYCES YEASTS, THEIR
; PREPARATION AND USE
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd. 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

```
; APPLICATION NUMBER: US/09/640,305
; FILING DATE: 16-AUG-2000
; PRIORITY INFORMATION:
; APPLICATION DATA: US/08/360,673
; FILING DATE: 06-FEB-1995
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-640-305-4

Query Match 43.2%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 53;
Matches 7; Conservative 3; Mismatches 3; Indels 7; Gaps 1;

QY 1 DWVCEWL-----KMQWACN 14
|:|:|:|:|:|:|:|:|:|:|
Db 405 DYICNWLGNLAWTEKLEWRYN 425

RESULT 6
US-08-360-673-4
; Sequence 4, Application US/08360673
; Patent No. 5679544
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; APPLICANT: Fournier, Alain
; APPLICANT: Yeh, Patrice
; TITLE OF INVENTION: MODIFIED KLJUVROMYCES YEASTS, THEIR
; TITLE OF INVENTION: PREPARATION AND USE
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd. 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
```

```
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-360-673-4

Query Match 43.2%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 53;
Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;

QY 1 DWVCEWL-----KMQWACN 14
|:|:|:|:|:|:|:|:|:|:|
Db 405 DYICNWLGNLAWTEKLEWRYN 425

RESULT 7
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.Fm
; SEQ ID NO 7155
; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7155

Query Match 42.7%; Score 44; DB 4; Length 89;
Best Local Similarity 45.5%; Pred. No. 10;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQW 11
|:|:|:|:|:|:|:|
Db 45 DWLADWWKVGW 55

RESULT 8
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berk, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Gollightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61875780 No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
```

;
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 42.7%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWL 7
||:|:|
DB 340 DWICNWL 346

RESULT 9

US-09-489-039A-12688
; Sequence 12688, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:

; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae

US-09-489-039A-12688

Query Match 41.7%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

QY 1 DWVCEWLK--MQW 11
:|:|:|:|
DB 110 NWIPEWAKEMQW 122

RESULT 10

US-08-288-508C-2
; Sequence 2, Application US/08288508C
; Patent No. 5994094
; GENERAL INFORMATION:

; APPLICANT: H tten, Gertrud
; APPLICANT: Neidhardt, Helge
; APPLICANT: Paulista, Michael
; TITLE OF INVENTION: NEW GROWTH/DIFFERENTIATING FACTOR OF
; TITLE OF INVENTION: THE TGF- FAMILY
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nikaido, Marmelstein, Murray & Oram LLP
; STREET: 655 Fifteenth Street N.W. Suite 330

;
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-5701
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/288,508C
; FILING DATE: 10-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE P 43 26 829.3
; FILING DATE: 10-AUG-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE P 44 18 222.8
; FILING DATE: 25-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE P 44 20 157.5
; FILING DATE: 09-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: JAHNS, Kristina M.
; REGISTRATION NUMBER: P-41,092
; REFERENCE/DOCKET NUMBER: P564-4019
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)638-5000
; TELEFAX: (202)638-4810
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 501 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-288-508C-2

Query Match 41.7%; Score 43; DB 2; Length 501;
Best Local Similarity 40.0%; Pred. No. 90;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWACNVL 16
|:|:|:|:|
DB 12 WYLAWLDFEICTVL 26

RESULT 11

US-08-981-490B-1
; Sequence 1, Application US/08981490B
; Patent No. 6531450
; GENERAL INFORMATION:

; APPLICANT: Hotten, Gertrud
; APPLICANT: Pohl, Jens
; APPLICANT: Bechtold, Rolf
; APPLICANT: Paulista, Michael
; APPLICANT: Unsicker, Klaus
; TITLE OF INVENTION: USE OF MP52 OR MP121 FOR TREATING AND PREVENTING DISEASES OF THE
; TITLE OF INVENTION: NERVOUS SYSTEM
; FILE REFERENCE: 100564-07032
; CURRENT APPLICATION NUMBER: US/08/981,490B
; CURRENT FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: PCT/EP96/03065
; PRIOR FILING DATE: 1996-07-12
; PRIOR APPLICATION NUMBER: DE/195 25 416.3
; PRIOR FILING DATE: 1995-07-12
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Homo sapiens

US-08-981-490B-1

Query Match 41.7%; Score 43; DB 4; Length 501;
Best Local Similarity 40.0%; Pred. No. 90;
Matches 6; Conservative 3; Mismatches 6; Indels 6; Gaps 0;
QY 2 WVCEWLKMQWACNVL 16
Db 12 WYLAWLDFEICTVL 26

RESULT 12
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI071P2 rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.3;
Matches 6; Conservative 1; Mismatches 5; Indels 5; Gaps 0;

QY 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 13
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI071P2CL.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized

; Patent No. 6608028
US-09-723-251A-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.3;
Matches 6; Conservative 1; Mismatches 5; Indels 5; Gaps 0;

QY 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 14
US-09-497-491-47
; Sequence 47, Application US/09497491
; Patent No. 6630573
; GENERAL INFORMATION:
; APPLICANT: Walker, Craig
; APPLICANT: Shetty, Reshma
; APPLICANT: Olivera, Balomero M.
; APPLICANT: Hooper, David
; APPLICANT: Jacobsen, Richard
; APPLICANT: Steele, Doug
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: Tau-Conotoxin Peptides
; FILE REFERENCE: Tau-Conopeptides
; CURRENT APPLICATION NUMBER: US/09/497,491
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: US 60/118,642
; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Conus gloriamaris
US-09-497-491-47

Query Match 39.8%; Score 41; DB 4; Length 63;
Best Local Similarity 83.3%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWCEW 6
Db 57 DWCEW 62

RESULT 15
US-09-252-991A-21369
; Sequence 21369, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21369
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21369

Query Match 39.8%; Score 41; DB 4; Length 170;
Best Local Similarity 50.0%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WYCEWLKQW 11
| : | | |
Db 36 WLCWLASCW 45

Search completed: September 8, 2004, 14:31:52
Job time : 14.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-141

Perfect score: 105
Sequence: 1 DWCEWLKMQWFCNAL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	105	100.0	16	11	US-09-825-517A-141
2	98	93.3	16	11	US-09-825-517A-148
3	96	91.4	16	11	US-09-825-517A-146
4	93	88.6	16	11	US-09-825-517A-125
5	93	88.6	16	11	US-09-825-517A-142
6	92	87.6	16	11	US-09-825-517A-54
7	92	87.6	16	11	US-09-825-517A-112
8	92	87.6	16	11	US-09-825-517A-122
9	92	87.6	16	11	US-09-825-517A-138
10	92	87.6	16	11	US-09-825-517A-140
11	92	87.6	16	11	US-09-825-517A-143
12	92	87.6	16	11	US-09-825-517A-144
13	91	86.7	16	11	US-09-825-517A-101
14	90	85.7	16	11	US-09-825-517A-130
15	89	84.8	16	11	US-09-825-517A-68

16	89	84.8	16	11	US-09-825-517A-126	Sequence 126, App
17	83	79.0	16	11	US-09-825-517A-49	Sequence 49, App1
18	83	79.0	16	11	US-09-825-517A-56	Sequence 56, App1
19	83	79.0	16	11	US-09-825-517A-115	Sequence 115, App
20	83	79.0	16	11	US-09-825-517A-147	Sequence 147, App
21	83	79.0	16	11	US-09-825-517A-151	Sequence 151, App
22	82	78.1	16	11	US-09-825-517A-75	Sequence 75, App1
23	81	77.1	16	11	US-09-825-517A-59	Sequence 59, App1
24	81	77.1	16	11	US-09-825-517A-78	Sequence 78, App1
25	81	77.1	16	11	US-09-825-517A-103	Sequence 103, App
26	81	77.1	16	11	US-09-825-517A-127	Sequence 127, App
27	80	76.2	16	11	US-09-825-517A-86	Sequence 86, App1
28	78	74.3	16	11	US-09-825-517A-150	Sequence 150, App
29	77	73.3	16	11	US-09-825-517A-114	Sequence 114, App
30	77	73.3	16	11	US-09-825-517A-117	Sequence 117, App
31	77	73.3	16	11	US-09-825-517A-137	Sequence 137, App
32	76	72.4	16	11	US-09-825-517A-80	Sequence 80, App1
33	76	72.4	16	11	US-09-825-517A-100	Sequence 100, App
34	76	72.4	16	11	US-09-825-517A-109	Sequence 109, App
35	75	71.4	16	11	US-09-825-517A-65	Sequence 65, App1
36	75	71.4	16	11	US-09-825-517A-105	Sequence 105, App
37	75	71.4	16	11	US-09-825-517A-107	Sequence 107, App
38	74	70.5	16	11	US-09-825-517A-113	Sequence 113, App
39	74	70.5	16	11	US-09-825-517A-139	Sequence 139, App
40	73	69.5	16	11	US-09-825-517A-104	Sequence 104, App
41	73	69.5	16	11	US-09-825-517A-135	Sequence 135, App
42	72	68.6	16	11	US-09-825-517A-128	Sequence 128, App
43	71	67.6	16	11	US-09-825-517A-76	Sequence 76, App1
44	71	67.6	16	11	US-09-825-517A-81	Sequence 81, App1
45	71	67.6	16	11	US-09-825-517A-90	Sequence 90, App1

ALIGNMENTS

RESULT 1
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match 100.0%; Score 105; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.2e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKMQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEWLKMQWFCNAL 16

RESULT 2
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match      93.3%; Score 98; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 2.6e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWFCNAL 16

RESULT 3
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match      91.4%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 4.8e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWFCNSL 16

RESULT 4
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      88.6%; Score 93; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWACNVL 16

RESULT 5
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match      88.6%; Score 93; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWACNVL 16

RESULT 6
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
```



```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 7
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 8
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
```

```
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 9
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 10
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 11
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
```

RESULT 11
 US-09-825-517A-143
 ; Sequence 143, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 143
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-143

Query Match 87.6%; Score 92; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 1.6e-05;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWLKMQWACNML 16

RESULT 12
 US-09-825-517A-144
 ; Sequence 144, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 144
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-144

Query Match 87.6%; Score 92; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 1.6e-05;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWLKQWYCNSL 16

RESULT 13
 US-09-825-517A-101
 ; Sequence 101, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 101
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-101

Query Match 86.7%; Score 91; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 2.2e-05;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWSKMQWSCNAL 16

RESULT 14
 US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-130

Query Match 85.7%; Score 90; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWFKAQWFCNML 16

RESULT 15
 US-09-825-517A-68
 ; Sequence 68, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68
```

```
Query Match      84.8%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy      1 DWVCEWLKMQWFCNAL 16
        |||||{|||||
Db      1 DWVCEWFKQWFCNPL 16
```

```
Search completed: September 8, 2004, 15:58:37
Job time : 43.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-141
Perfect score: 105
Sequence: 1 DWCEWLKMQWFCNAL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgm2_6/ptodata/2/iaa/5A.COMB.pap.*
2: /cgm2_6/ptodata/2/iaa/5B.COMB.pap.*
3: /cgm2_6/ptodata/2/iaa/6A.COMB.pap.*
4: /cgm2_6/ptodata/2/iaa/6B.COMB.pap.*
5: /cgm2_6/ptodata/2/iaa/PCTUS.COMB.pap.*
6: /cgm2_6/ptodata/2/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	49	46.7	1129	4	US-09-252-991A-28552
2	47	44.8	677	3	US-09-061-768A-4
3	47	44.8	677	4	US-09-764-246-4
4	46	43.8	71	4	US-09-621-976-5666
5	46	43.8	423	3	US-08-943-714-9
6	44.5	42.4	89	4	US-09-621-976-7155
7	44	41.9	411	2	US-08-568-459A-20
8	44	41.9	411	2	US-08-487-826B-32
9	44	41.9	411	4	US-09-210-288-20
10	44	41.9	2710	2	US-08-568-459A-12
11	44	41.9	2710	2	US-08-487-826B-12
12	44	41.9	2710	4	US-09-210-288-12
13	44	41.9	3060	2	US-08-487-826B-14
14	43	41.0	21	4	US-09-337-272C-27
15	43	41.0	21	4	US-09-723-251A-27
16	43	41.0	428	4	US-09-489-039A-12688
17	43	41.0	725	4	US-10-164-595-30
18	42.5	40.5	381	4	US-09-721-870-28
19	42.5	40.5	491	1	US-09-640-305-4
20	42.5	40.5	491	1	US-08-360-673-4
21	42	40.0	152	4	US-09-199-637A-269
22	42	40.0	475	4	US-09-252-991A-28111
23	42	40.0	1122	4	US-09-489-039A-8554
24	42	40.0	1284	4	US-09-170-496D-294
25	42	40.0	1284	4	US-09-364-425B-59
26	41	39.0	24	1	US-08-484-635-86
27	41	39.0	24	2	US-08-484-631-86

```

28      41      39.0      24      2      US-08-827-570-86      Sequence 86, Appl
29      41      39.0      63      4      US-09-497-491-47      Sequence 47, Appl
30      41      39.0      170      4      US-09-252-991A-21369      Sequence 21369, A
31      41      39.0      227      4      US-08-213-419B-13      Sequence 13, Appl
32      40.5      38.6      20      2      US-07-894-063A-6       Sequence 6, Appl
33      40.5      38.6      30      1      US-08-262-037-16      Sequence 16, Appl
34      40.5      38.6      38      1      US-08-262-037-95      Sequence 95, Appl
35      40.5      38.6      47      1      US-08-262-037-96      Sequence 96, Appl
36      40.5      38.6      106      3      US-08-444-818-24      Sequence 24, Appl
37      40.5      38.6      176      3      US-08-444-818-28      Sequence 28, Appl
38      40.5      38.6      360      4      US-08-850-328-4       Sequence 4, Appl
39      40.5      38.6      516      3      US-08-867-611-6       Sequence 6, Appl
40      40.5      38.6      516      4      US-09-630-359-6       Sequence 11, Appl
41      40.5      38.6      516      5      PCT-US92-08965A-11    Sequence 36, Appl
42      40.5      38.6      798      3      US-08-867-611-36      Sequence 36, Appl
43      40.5      38.6      798      4      US-09-690-359-36      Sequence 30, Appl
44      40.5      38.6      859      3      US-08-444-818-30      Sequence 30, Appl
45      40.5      38.6      1040      4      US-10-104-966-9       Sequence 9, Appl

```

ALIGNMENTS

RESULT 1
US-09-252-991A-28552
; Sequence 28552, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28552
; LENGTH: 1129
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28552

Query Match 46.7%; Score 49; DB 4; Length 1129;
Best Local Similarity 46.7%; Pred. No. 33;
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

```

QY      2 WVCWLKMQWFCNAL 16
      |||||
DB      933 WPSNWLPMNCRAV 947

```

RESULT 2
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JOISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
COMPUTER: IBM PC/XT/AT compatible
OPERATING SYSTEM: Windows 3.1
SOFTWARE: WORD PERFECT 6.1 and ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/764,246
FILING DATE: 17-Jan-2001
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: <Unknown>
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: ARLES A. TAYLOR, JR.
REGISTRATION NUMBER: 39,395
REFERENCE/DOCKET NUMBER: 1242/5
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 493-8000
TELEFAX: (919) 419-0383
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 4:

RESULT 5
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berka, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: No. 6187578o No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette

```
;
;
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ FOR Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-08-943-714-9
;
; Query Match 43.8%; Score 46; DB 3; Length 423;
; Best Local Similarity 43.8%; Pred. No. 33;
; Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
;
; QY 1 DWVCEWLKMQWFCNAL 16
; DB 340 DWICNLGNVEVANAV 355
;
; RESULT 6
; US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7155
; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
;
; US-09-621-976-7155
;
; Query Match 42.4%; Score 44.5; DB 4; Length 89;
; Best Local Similarity 26.9%; Pred. No. 11;
; Matches 7; Conservative 4; Mismatches 4; Indels 11; Gaps 1;
;
; QY 1 DWVCEWLKMQW-----FCNA 15
; DB 45 DWLADWKVGWTKGHVSSQHOFCTIS 70
;
; RESULT 7
; US-08-568-459A-20
; Sequence 20, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
;
; US-08-568-459A-20
; Sequence 32, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
;
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/568,459A
; FILING DATE: 07-DEC-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH21.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
;
; US-08-568-459A-20
;
; Query Match 41.9%; Score 44; DB 2; Length 411;
; Best Local Similarity 42.9%; Pred. No. 62;
; Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;
;
; QY 2 WVCEWLKMQWFCNA 15
; DB 229 WMTW--AEWYCKA 240
;
; RESULT 8
; US-08-487-826B-32
; Sequence 32, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
;
```

```
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/487,826B
;; FILING DATE: 10-SEP-1993
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Israel, Ned
;; REGISTRATION NUMBER: 29,655
;; REFERENCE/DOCKET NUMBER: NIH121.001CP1
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (619) 235-8550
;; TELEFAX: (619) 235-0176
;; INFORMATION FOR SEQ ID NO: 32:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 411 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; FRAGMENT TYPE: internal
;; ORIGINAL SOURCE:
US-08-487-826B-32

Query Match 41.9%; Score 44; DB 2; Length 411;
Best Local Similarity 42.9%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY 2 WVCEWLKMQWFCNA 15
DB 229 WNTW--AEWYCKA 240

RESULT 9
US-09-210-288-20
; Sequence 20, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
```

```
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; FRAGMENT TYPE: internal
;; ORIGINAL SOURCE:
US-09-210-288-20

Query Match 41.9%; Score 44; DB 4; Length 411;
Best Local Similarity 42.9%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY 2 WVCEWLKMQWFCNA 15
DB 229 WNTW--AEWYCKA 240

RESULT 10
US-08-568-459A-12
; Sequence 12, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/568,459A
; FILING DATE: 07-DEC-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israel, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
US-08-568-459A-12

Query Match 41.9%; Score 44; DB 2; Length 2710;
Best Local Similarity 42.9%; Pred. No. 4.4e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY 2 WVCEWLKMQWFCNA 15
```


Db 1138 WMTW--AEWYCKA 1149

RESULT 11

US-08-487-826B-12

; Sequence 12, Application US/08487826B

; Patent No. 5993827

; GENERAL INFORMATION:

; APPLICANT: Sim, Kim L.

; APPLICANT: Chitnis, Chetan

; APPLICANT: Miller, Louis H.

; APPLICANT: Peterson, David S.

; APPLICANT: Su, Xin-zhaun

; APPLICANT: Wellens, Thomas E.

; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX

; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Knobbe Martens Olson & Bear

; STREET: 620 Newport Center Drive 16th Floor

; CITY: Newport Beach

; STATE: California

; COUNTRY: US

; ZIP: 92660

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/487,826B

; FILING DATE: 10-SEP-1993

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Israel, Ned

; REGISTRATION NUMBER: 29,655

; REFERENCE/DOCKET NUMBER: NIH121.001CP1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (619) 235-8550

; TELEFAX: (619) 235-0176

; INFORMATION FOR SEQ ID NO: 12:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2710 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; HYPOTHETICAL: NO

; ORIGINAL SOURCE:

; ORGANISM: Plasmodium falciparum

; US-08-487-826B-12

Query Match 41.9%; Score 44; DB 2; Length 2710;

Best Local Similarity 42.9%; Pred. No. 4.4e+02;

Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY 2 WVCEWLKMQWFCNA 15

Db 1138 WMTW--AEWYCKA 1149

RESULT 13

US-08-487-826B-14

; Sequence 14, Application US/08487826B

; Patent No. 5993827

; GENERAL INFORMATION:

; APPLICANT: Sim, Kim L.

; APPLICANT: Chitnis, Chetan

; APPLICANT: Miller, Louis H.

; APPLICANT: Peterson, David S.

; APPLICANT: Su, Xin-zhaun

; APPLICANT: Wellens, Thomas E.

; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX

; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Knobbe Martens Olson & Bear

; STREET: 620 Newport Center Drive 16th Floor

; CITY: Newport Beach

; STATE: California

; COUNTRY: US

; ZIP: 92660

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/210,288

; FILING DATE:

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Fuller, Michael

; REGISTRATION NUMBER: 36,516

; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (619) 235-8550

; TELEFAX: (619) 235-0176

; INFORMATION FOR SEQ ID NO: 12:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2710 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; HYPOTHETICAL: NO

; ORIGINAL SOURCE:

; ORGANISM: Plasmodium falciparum

; US-09-210-288-12

Query Match 41.9%; Score 44; DB 4; Length 2710;

Best Local Similarity 42.9%; Pred. No. 4.4e+02;

Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY 2 WVCEWLKMQWFCNA 15

Db 1138 WMTW--AEWYCKA 1149

RESULT 12

US-09-210-288-12

; Sequence 12, Application US/09210288

; Patent No. 6392026

; GENERAL INFORMATION:

; APPLICANT: Sim, Kim L.

; APPLICANT: Chitnis, Chetan

; APPLICANT: Miller, Louis H.

; APPLICANT: Peterson, David S.

; APPLICANT: Su, Xin-zhaun

; APPLICANT: Wellens, Thomas E.

; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX

; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Knobbe Martens Olson & Bear

; STREET: 620 Newport Center Drive 16th Floor

; CITY: Newport Beach

; STATE: California

; COUNTRY: US

; ZIP: 92660

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

```
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3060 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-487-826B-14
```

```
Query Match 41.9%; Score 44; DB 2; Length 3060;
Best Local Similarity 42.9%; Pred. No. 5e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;
```

```
Qy 2 WVCEWLKMQWFCNA 15
Db 1136 MWTEW--AEWYCKA 1147
```

```
RESULT 14
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P107IP2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27
```

```
Query Match 41.0%; Score 43; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 3.9;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;
```

```
Qy 2 WVCEWLKMQWFC 13
Db 3 WVCRAEPLQWLC 14
```

```
RESULT 15
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
```

```
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P107IP2C1.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27
```

```
Query Match 41.0%; Score 43; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 3.9;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;
```

```
Qy 2 WVCEWLKMQWFC 13
Db 3 WVCRAEPLQWLC 14
```

```
Search completed: September 8, 2004, 14:31:51
Job time : 13.3 secs
```

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds

(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-140

Sequence: 1 DWVCEWLKMQWACNLL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	103	100.0	16	11	US-09-825-517A-112
2	103	100.0	16	11	US-09-825-517A-122
3	103	100.0	16	11	US-09-825-517A-140
4	102	99.0	16	11	US-09-825-517A-125
5	102	99.0	16	11	US-09-825-517A-142
6	100	97.1	16	11	US-09-825-517A-54
7	100	97.1	16	11	US-09-825-517A-138
8	100	97.1	16	11	US-09-825-517A-143
9	92	89.3	16	11	US-09-825-517A-49
10	92	89.3	16	11	US-09-825-517A-141
11	92	89.3	16	11	US-09-825-517A-151
12	89	86.4	16	11	US-09-825-517A-101
13	88	85.4	16	11	US-09-825-517A-126
14	85	82.5	16	11	US-09-825-517A-115
15	85	82.5	16	11	US-09-825-517A-146

16	85	82.5	16	11	US-09-825-517A-148
17	84	81.6	16	11	US-09-825-517A-130
18	84	81.6	16	11	US-09-825-517A-144
19	79	76.7	16	11	US-09-825-517A-68
20	79	76.7	16	11	US-09-825-517A-107
21	78	75.7	16	11	US-09-825-517A-80
22	78	75.7	16	11	US-09-825-517A-139
23	78	75.7	16	11	US-09-825-517A-147
24	77	74.8	16	11	US-09-825-517A-75
25	77	74.8	16	11	US-09-825-517A-76
26	77	74.8	16	11	US-09-825-517A-104
27	77	74.8	16	11	US-09-825-517A-117
28	77	74.8	16	11	US-09-825-517A-135
29	77	74.8	16	11	US-09-825-517A-137
30	76	73.8	16	11	US-09-825-517A-59
31	76	73.8	16	11	US-09-825-517A-67
32	76	73.8	16	11	US-09-825-517A-82
33	76	73.8	16	11	US-09-825-517A-90
34	76	73.8	16	11	US-09-825-517A-103
35	76	73.8	16	11	US-09-825-517A-105
36	76	73.8	16	11	US-09-825-517A-127
37	76	73.8	16	11	US-09-825-517A-106
38	75	72.8	16	11	US-09-825-517A-86
39	75	72.8	16	11	US-09-825-517A-113
40	75	72.8	16	11	US-09-825-517A-150
41	73	70.9	16	11	US-09-825-517A-72
42	73	70.9	16	11	US-09-825-517A-100
43	73	70.9	16	11	US-09-825-517A-118
44	73	70.9	16	11	US-09-825-517A-88
45	72	69.9	16	11	US-09-825-517A-88

ALIGNMENTS

RESULT 1
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; TYPE: PRT
; LENGTH: 16
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 DWVCEWLKMQWACNLL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWACNLL 16

RESULT 2
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 3
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 4
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 5
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 6
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match 97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
|||||:|||||:
Db 1 DWVCEWLKMQWACNML 16

RESULT 7
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match 97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
|||||:|||||:
Db 1 DWVCEWLKMQWACNML 16

RESULT 8
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match 97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;

Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 DWVCEWLKMQWACNML 16
|||||:|||||:
Db 1 DWVCEWLKMQWACNML 16

RESULT 9
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match 89.3%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
|||||:|||||:
Db 1 DWVCEFLKMQWACNVL 16

RESULT 10
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match 89.3%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
|||||:|||||:
Db 1 DWVCEWLKMQWFCNAL 16

RESULT 11

US-09-825-517A-151
; Sequence 151, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 151
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-151

Query Match 89.3%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05; Indels 0;
Matches 14; Conservative 2; Mismatches 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
|||||
Db 1 DWVCEFLKMQWACNVL 16

RESULT 12

US-09-825-517A-101
; Sequence 101, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 101
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-101

Query Match 86.4%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.8e-05; Indels 0;
Matches 13; Conservative 1; Mismatches 2; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
|||||
Db 1 DWVCEWFKMQWACNVL 16

RESULT 13

US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match 85.4%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.9e-05; Indels 0;
Matches 13; Conservative 1; Mismatches 2; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
|||||
Db 1 DWVCEWLKMQWACNVL 16

RESULT 14

US-09-825-517A-115
; Sequence 115, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-115

Query Match 82.5%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 9.7e-05; Indels 0;
Matches 12; Conservative 1; Mismatches 3; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16
|||||
Db 1 DWVCEWFKMQWACNVL 16

RESULT 15

US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
```

```
Query Match      82.5%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.7e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWVCEWLKQWACNIL 16
          |||||  |||||
Db       1 DWVCEWLKQWFCNSL 16
```

Search completed: September 8, 2004, 15:58:37
Job time : 44.85 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-140
Perfect score: 103
Sequence: 1 DWVCEWLKQWACNIL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues
Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/2/iaa/5A COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PTUS COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	44.7	677	3	US-09-061-768A-4
2	46	44.7	677	4	US-09-764-246-4
3	45	43.7	71	4	US-09-621-976-5666
4	45	43.7	1129	4	US-09-252-991A-28552
5	44.5	43.2	491	1	US-09-640-305-4
6	44.5	43.2	491	1	US-08-360-673-4
7	44	42.7	89	4	US-09-621-976-7155
8	44	42.7	423	3	US-08-943-714-9
9	43	41.7	428	4	US-09-489-039A-12688
10	42	40.8	21	4	US-09-337-227C-27
11	42	40.8	21	4	US-09-723-251A-27
12	42	40.8	393	1	US-08-689-974-4
13	42	40.8	393	3	US-09-058-376-4
14	42	40.8	501	2	US-08-288-508C-2
15	42	40.8	63	4	US-08-981-490B-1
16	41	39.8	63	4	US-09-497-491-47
17	41	39.8	170	4	US-09-252-991A-21369
18	41	39.8	382	4	US-09-252-991A-32166
19	41	39.8	1956	3	US-08-843-417-10
20	41	39.8	1956	4	US-09-527-013-10
21	41	39.8	1956	4	US-09-527-013-10
22	40.5	39.3	20	2	US-07-894-063A-6
23	40.5	39.3	30	1	US-08-262-037-16
24	40.5	39.3	38	1	US-08-262-037-95
25	40.5	39.3	38	1	US-08-262-037-96
26	40.5	39.3	106	3	US-08-444-818-24
27	40.5	39.3	176	3	US-08-444-818-28

28	40.5	39.3	360	4	US-08-850-328-4	Sequence 4, Appli
29	40.5	39.3	516	3	US-08-867-611-6	Sequence 6, Appli
30	40.5	39.3	516	4	US-09-690-359-6	Sequence 6, Appli
31	40.5	39.3	516	5	PCT-US92-06965A-11	Sequence 11, Appl
32	40.5	39.3	798	3	US-08-867-611-36	Sequence 36, Appl
33	40.5	39.3	798	4	US-09-690-359-36	Sequence 36, Appl
34	40.5	39.3	859	3	US-08-444-818-30	Sequence 30, Appl
35	40.5	39.3	1040	4	US-10-104-966-9	Sequence 9, Appli
36	40.5	39.3	1786	3	US-08-444-818-54	Sequence 54, Appl
37	40.5	39.3	2261	3	US-08-444-818-66	Sequence 66, Appl
38	40.5	39.3	2436	3	US-08-444-818-75	Sequence 75, Appl
39	40.5	39.3	2772	3	US-08-444-818-89	Sequence 89, Appl
40	40.5	39.3	2894	2	US-08-466-975A-23	Sequence 23, Appl
41	40.5	39.3	2894	3	US-08-391-671A-23	Sequence 23, Appl
42	40.5	39.3	2894	3	US-08-467-902A-23	Sequence 23, Appl
43	40.5	39.3	2894	3	US-09-275-265-23	Sequence 23, Appl
44	40.5	39.3	2894	4	US-09-941-611-23	Sequence 23, Appl
45	40.5	39.3	2955	2	US-08-443-260-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061.768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: NONE
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; US-09-061-768A-4

Query Match 44.7%; Score 46; DB 3; Length 677;
Best Local Similarity 40.0%; Pred. No. 46;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
2 WVCEWLKQW 11
QY

us-09-825-517a-140.ra1

Wed Sep 8 16:40:52 2004

```

; APPLICATION NUMBER: US/09/640,305
; FILING DATE: 16-AUG-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE: 06-FEB-1995
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELEPHONE: (610)454-3839
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-640-305-4
43.2%; Score 44.5; DB 1; Length 491;
Query Match 33.3%; Pred. No. 55;
Best Local Similarity 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;
Matches 7; Indels 3; Gaps 0;

QY 1 DWVCEWL-----KMQWACN 14
|::|||
|::|||
Db 405 DYICWNLGNLAWTEKLEWRYN 425

RESULT 6
US-08-360-673-4
; Sequence 4, Application US/08360673
; Patent No. 5679544
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; APPLICANT: Fournier, Alain
; APPLICANT: Yeh, Patrice
; TITLE OF INVENTION: MODIFIED KLUYVEROMYCES YEASTS, THEIR
; PREPARATION AND USE
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd. 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839

; APPLICATION NUMBER: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-08-360-673-4
43.2%; Score 44.5; DB 1; Length 491;
Query Match 33.3%; Pred. No. 55;
Best Local Similarity 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;
Matches 7; Indels 3; Gaps 0;

QY 1 DWVCEWL-----KMQWACN 14
|::|||
|::|||
Db 405 DYICWNLGNLAWTEKLEWRYN 425

RESULT 7
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTS and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO: 7155
; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7155
42.7%; Score 44; DB 4; Length 89;
Query Match 45.5%; Pred. No. 11;
Best Local Similarity 3; Mismatches 3; Indels 0;
Matches 5; Conservative 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKQW 11
|::|||
|::|||
Db 45 DWLADWKKVGV 55

RESULT 8
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berka, Randy
; APPLICANT: Rev, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Brik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61875780 No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

```

```

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 42.7%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWL 7
DB 340 DWICNWL 346

RESULT 9
US-09-489-039A-12688
; Sequence 12688, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.7%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 79;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

QY 1 DWVCEWLK-MQW 11
DB 110 NWIFEWAKEMQW 122

RESULT 10
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
```

```

; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
DB 3 WVCRAQLQWLC 14

RESULT 11
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1:rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
DB 3 WVCRAQLQWLC 14

RESULT 12
US-08-689-974-4
; Sequence 4, Application US/08689974
; Patent No. 5776732
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
```

ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/689,974
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 459890
US-08-689-974-4

Query Match 40.8%; Score 42; DB 1; Length 393;
Best Local Similarity 41.2%; Pred. No. 1e+02;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNIL 16
Db 360 WLAVWFKMGSSWLCLLL 376

RESULT 13
US-09-058-376-4
Sequence 4, Application US/09058376
Patent No. 6080841
GENERAL INFORMATION:
APPLICANT: Au-Young, Janice
APPLICANT: Hawkins, Phillip R.
APPLICANT: Murray, Lynn E.
TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/058,376
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/689,974
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 459890
US-09-058-376-4

Query Match 40.8%; Score 42; DB 3; Length 393;
Best Local Similarity 41.2%; Pred. No. 1e+02;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNIL 16
Db 360 WLAVWFKMGSSWLCLLL 376

RESULT 14
US-08-288-508C-2
Sequence 2, Application US/08288508C
Patent No. 5934094
GENERAL INFORMATION:
APPLICANT: H tten, Gertrud
APPLICANT: Neidhardt, Helge
APPLICANT: Paulista, Michael
TITLE OF INVENTION: NEW GROWTH/DIFFERENTIATING FACTOR OF
THE TGF- FAMILY
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nikaido, Marmelstein, Murray & Oram LLP
STREET: 655 Fifteenth Street N.W. Suite 330
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-5701
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/288,508C
FILING DATE: 10-AUG-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 43 26 829.3
FILING DATE: 10-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 44 18 222.8
FILING DATE: 25-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 44 20 157.5
FILING DATE: 09-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: JAHNS, Kristina M.
REGISTRATION NUMBER: P-41,092
REFERENCE/DOCKET NUMBER: P564-4019
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)638-5000
TELEFAX: (202)638-4810
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 amino acids
TYPE: amino acid
TOPOLOGY: linear

; MOLECULE TYPE: protein
US-08-288-508C-2

Query Match 40.8%; Score 42; DB 2; Length 501;
Best Local Similarity 33.3%; Pred. No. 1.3e+02;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
Qy 2 WVCEWLKQWACNIL 16
Db 12 WYLAWLDFICTVL 26

RESULT 15
US-08-981-490B-1
; Sequence 1, Application US/08981490B
; Patent No. 6531450
; GENERAL INFORMATION:
; APPLICANT: Hotten, Gertrud
; APPLICANT: Pohl, Jens
; APPLICANT: Bechtold, Rolf
; APPLICANT: Paulista, Michael
; APPLICANT: Unsicker, Klaus
; TITLE OF INVENTION: USE OF MP52 OR MP121 FOR TREATING AND PREVENTING DISEASES OF THE
; FILE REFERENCE: 100564-07032
; CURRENT APPLICATION NUMBER: US/08/981,490B
; CURRENT FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: PCT/EP96/03065
; PRIOR FILING DATE: 1996-07-12
; PRIOR APPLICATION NUMBER: DE/195 25 416.3
; PRIOR FILING DATE: 1995-07-12
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-981-490B-1

Query Match 40.8%; Score 42; DB 4; Length 501;
Best Local Similarity 33.3%; Pred. No. 1.3e+02;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
Qy 2 WVCEWLKQWACNIL 16
Db 12 WYLAWLDFICTVL 26

Search completed: September 8, 2004, 14:31:51
Job time : 13.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title:
Perfect score: 102
Sequence: 1 DWVCEYFKNQWLCNII 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

Result No.	Score	Query Match	Length	ID	Description
1	102	100.0	16	11	US-09-825-517A-139
2	97	95.1	16	11	US-09-825-517A-59
3	92	90.2	16	11	US-09-825-517A-105
4	89	87.3	16	11	US-09-825-517A-80
5	89	87.3	16	11	US-09-825-517A-150
6	88	86.3	16	11	US-09-825-517A-104
7	88	86.3	16	11	US-09-825-517A-109
8	88	86.3	16	11	US-09-825-517A-137
9	87	85.3	16	11	US-09-825-517A-75
10	86	84.3	16	11	US-09-825-517A-76
11	86	84.3	16	11	US-09-825-517A-86
12	85	83.3	16	11	US-09-825-517A-115
13	84	82.4	16	11	US-09-825-517A-126
14	84	82.4	16	11	US-09-825-517A-128
15	83	81.4	16	11	US-09-825-517A-67

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Query Match 100.0%; Score 102; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.1e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEYFKNQWLCNII 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEYFKNQWLCNII 16

RESULT 2
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

```

```

Query Match          95.1%; Score 97; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.8e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 DWVCEYFKQWLCNVL 16
    |||||:|||||:|:|
Db 1 DWVCEYFKQWFCNVL 16

```

```

RESULT 3
US-09-825-517A-105
; Sequence 105, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-105

```

```

Query Match          90.2%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.9e-06;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DWVCEYFKQWLCNVL 16
    |||||:|||||:|:|
Db 1 DWVCEYFKQWFCNVL 16

```

```

RESULT 4
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

```

```

Query Match          87.3%; Score 89; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 7.7e-06;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 DWVCEYFKQWLCNVL 16
    |||||:|||||:|:|
Db 1 DWVCEYFKQWFCNVL 16

```

```

RESULT 5
US-09-825-517A-150
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

```

```

Query Match          87.3%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.7e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 DWVCEYFKQWLCNVL 16
    |||||:|||||:|:|
Db 1 DWVCEYFKQWFCNVL 16

```

```

RESULT 6
US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT

```



```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

Query Match      86.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.1e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNII 16
   |||||:|:|:|:|
Db 1 DWVCEFFKQWNCNII 16

RESULT 7
US-09-825-517A-109
; Sequence 109, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-109

Query Match      86.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.1e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNII 16
   |||||:|:|:|:|
Db 1 DWVCEYFKQWFCDTL 16

RESULT 8
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match      86.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.1e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNII 16
   |||||:|:|:|:|
Db 1 DWVCEYFKQWFCDTL 16

RESULT 9
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match      85.3%; Score 87; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 1.5e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNII 16
   |||||:|:|:|:|
Db 1 DWVCEFFKQWFCNVL 16

RESULT 10
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match      84.3%; Score 86; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNII 16
   |||||:|:|:|:|
Db 1 DWVCEFFKQWSCNVL 16
```

```

RESULT 11
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86

Query Match      84.3%; Score 86; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNLL 16
   |||||:|||||:|
Db 1 DWVCEFFKQWFCNLL 16

RESULT 12
US-09-825-517A-115
; Sequence 115, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-115

Query Match      83.3%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.8e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNLL 16
   |||||:|||||:|
Db 1 DWVCEWFKQWFCNLL 16

RESULT 13
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match      82.4%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 3.9e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNLL 16
   |||||:|||||:|
Db 1 DWVCEWLNQWQWNCNVL 16

RESULT 14
US-09-825-517A-128
; Sequence 128, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 128
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-128

Query Match      82.4%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 3.9e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNLL 16
   |||||:|||||:|
Db 1 DWVCEWLNQWQWNCNVL 16

RESULT 15
US-09-825-517A-67
; Sequence 67, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67

Query Match      81.4%; Score 83; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 5.4e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      1 DWVCEYFKNQLCNIL 16
      |||||:|||||
Db      1 DWVCEFYKSNQNCNIL 16

Search completed: September 8, 2004, 15:58:36
Job time : 43.85 secs
```



```

; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match      43.1%; Score 44; DB 4; Length 21;
Best Local Similarity 58.3%; Pred. No. 3.5;
Matches 7; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEYFKQWLK 13
   |||
   ||||
DB 3 WVCRAGPLQWLC 14
   ||||

RESULT 4
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match      43.1%; Score 44; DB 4; Length 21;
Best Local Similarity 58.3%; Pred. No. 3.5;
Matches 7; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEYFKQWLK 13
   |||
   ||||
DB 3 WVCRAGPLQWLC 14
   ||||

RESULT 5
US-09-621-976-5666
; Sequence 5666, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GNSSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976

```

```
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24...-1
; US-09-621-976-5666

Query Match          43.1%; Score 44; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 12;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY      1 DWCEYFKQWLC 13
DB      54 DMCVWEPHHL 66

RESULT 6
US-09-134-000C-6254
; Sequence 6254, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6254
; LENGTH: 293
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (5)..(22)
; OTHER INFORMATION: Amino acids 5, 8, 12-15 & 22 are Xaa wherein Xaa =
; OTHER INFORMATION: any amino acid.
; OTHER INFORMATION: 1
; US-09-134-000C-6254

Query Match          43.1%; Score 44; DB 4; Length 293;
Best Local Similarity 58.3%; Pred. No. 51;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      5 EYFKQWLCNLL 16
DB      202 EHFKNWLIKLL 213

RESULT 7
US-09-621-976-5370
; Sequence 5370, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5370
; LENGTH: 97

; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -83...-1
; US-09-621-976-5370

Query Match          41.2%; Score 42; DB 4; Length 97;
Best Local Similarity 50.0%; Pred. No. 32;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      4 CEYFKQWLC 13
DB      13 CKYMSFWIC 22

RESULT 8
US-08-414-926A-5
; Sequence 5, Application US/08414926A
; Patent No. 5721354
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
; STREET: 5 Palo Alto Square
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-2155
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/414,926A
; APPLICATION NUMBER: US/08/414,926A
; FILING DATE: March 31, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR-011/OOUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-494-7622
; TELEFAX: 415-857-0663
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-414-926A-5

Query Match          41.2%; Score 42; DB 1; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      2 WVCYFKQW 11
DB      307 WVCSEPKHEW 316

RESULT 9
US-08-926-922-5
; Sequence 5, Application US/08926922
; Patent No. 5925751
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
```

```

; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; CLASSIFICATION: 516
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-926-922-5

Query Match 41.2%; Score 42; DB 2; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEYFKNOW 11
Db 307 WVCEEPKHEW 316

RESULT 10
US-09-253-682-5
; Sequence 5, Application US/09253682
; Patent No. 6040170
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/253,682
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
```

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-253-682-5

Query Match 41.2%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEYFKNOW 11
Db 307 WVCEEPKHEW 316

RESULT 11
US-09-527-657-5
; Sequence 5, Application US/09527657
; Patent No. 6291236
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/527,657
; FILING DATE: 17-Mar-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
; US-09-527-657-5

Query Match 41.2%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEYFKNOW 11
Db 307 WVCEEPKHEW 316
```



```
RESULT 12
US-09-892-100-5
; Sequence 5, Application US/09892100
; Patent No. 6635477
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; CHA, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/892,100
; FILING DATE: 26-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/527,657
; FILING DATE: 17-Mar-2000
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-892-100-5
Query Match 41.2%; Score 42; DB 4; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCEYFKNQW 11
Db 307 WVCEPKHEW 316

RESULT 13
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/764,246
; FILING DATE: 17-Jan-2001
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX: <Unknown>
```

```
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061,768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: NONE
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; US-09-061-768A-4
Query Match 41.2%; Score 42; DB 3; Length 677;
Best Local Similarity 45.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 WVCEYFKNQWL 12
Db 88 WFCRWFLEWL 98

RESULT 14
US-09-764-246-4
; Sequence 4, Application US/09764246
; Patent No. 6649355
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/764,246
; FILING DATE: 17-Jan-2001
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX: <Unknown>
```

```

: INFORMATION FOR SEQ ID NO: 4:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 677 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: unknown
: SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-764-246-4

```

Query Match 41.2%; Score 42; DB 4; Length 677;
Best Local Similarity 45.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 3; Mismatches 3; Indels

Qy	2	WVCEYFKNQWL	12
		:	
Db	88	WFCRWFELEWL	98

RESULT 15
 US-08-484-635-86
 ; Sequence 86, Application US/08484635
 ; Patent No. 5773569
 ; GENERAL INFORMATION:
 ; APPLICANT: Wrighton, Nicholas C.
 ; APPLICANT: Dower, William J.
 ; APPLICANT: Chang, Ray S.
 ; APPLICANT: Kashyap, Arun K.
 ; APPLICANT: Jolliffe, Linda K.
 ; APPLICANT: Johnson, Dana
 ; APPLICANT: Mulcahy, Linda
 ; TITLE OF INVENTION: Compounds and Peptides That Bind to the
 ; TITLE OF INVENTION: Erythropoietin Receptor
 ; NUMBER OF SEQUENCES: 259
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Townsend and Crew
 ; STREET: One Market Plaza, Steuart Street Tower
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94105-1492

```
Query Match      40.2%; Score 41; DB 1; Length 24;
Best Local Similarity 38.5%; Pred. NO. 11;
Matches 5; Conservative 5; Mismatches 3; Indels 0; Gaps 0;
```

QY 1 DWVCEYFKNQWLC 13

Db 10 EYVCQWGPDITWLC 22

Search completed: September 8, 2004, 14:31:51
Job time : 14.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-138

Perfect score: 104
Sequence: 1 DWVCEWLKMQWACNML 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	100.0	16	11	US-09-825-517A-54
2	104	100.0	16	11	US-09-825-517A-138
3	104	100.0	16	11	US-09-825-517A-143
4	100	96.2	16	11	US-09-825-517A-112
5	100	96.2	16	11	US-09-825-517A-122
6	100	96.2	16	11	US-09-825-517A-125
7	100	96.2	16	11	US-09-825-517A-140
8	100	96.2	16	11	US-09-825-517A-142
9	92	88.5	16	11	US-09-825-517A-141
10	90	86.5	16	11	US-09-825-517A-49
11	90	86.5	16	11	US-09-825-517A-151
12	89	85.6	16	11	US-09-825-517A-101
13	88	84.6	16	11	US-09-825-517A-130
14	86	82.7	16	11	US-09-825-517A-126
15	86	82.7	16	11	US-09-825-517A-146

16	85	81.7	16	11	US-09-825-517A-115	Sequence 115, App
17	85	81.7	16	11	US-09-825-517A-144	Sequence 144, App
18	85	81.7	16	11	US-09-825-517A-148	Sequence 148, App
19	80	76.9	16	11	US-09-825-517A-68	Sequence 68, Appl
20	80	76.9	16	11	US-09-825-517A-105	Sequence 105, App
21	78	75.0	16	11	US-09-825-517A-117	Sequence 117, App
22	76	73.1	16	11	US-09-825-517A-80	Sequence 80, Appl
23	76	73.1	16	11	US-09-825-517A-90	Sequence 90, Appl
24	76	73.1	16	11	US-09-825-517A-103	Sequence 103, App
25	76	73.1	16	11	US-09-825-517A-106	Sequence 106, App
26	76	73.1	16	11	US-09-825-517A-107	Sequence 107, App
27	76	73.1	16	11	US-09-825-517A-113	Sequence 113, App
28	76	73.1	16	11	US-09-825-517A-147	Sequence 147, App
29	75	72.1	16	11	US-09-825-517A-75	Sequence 75, Appl
30	75	72.1	16	11	US-09-825-517A-76	Sequence 76, Appl
31	75	72.1	16	11	US-09-825-517A-86	Sequence 86, Appl
32	75	72.1	16	11	US-09-825-517A-135	Sequence 135, App
33	75	72.1	16	11	US-09-825-517A-139	Sequence 139, App
34	74	71.2	16	11	US-09-825-517A-59	Sequence 59, Appl
35	74	71.2	16	11	US-09-825-517A-104	Sequence 104, App
36	74	71.2	16	11	US-09-825-517A-127	Sequence 127, App
37	74	71.2	16	11	US-09-825-517A-137	Sequence 137, App
38	73	70.2	16	11	US-09-825-517A-67	Sequence 67, Appl
39	73	70.2	16	11	US-09-825-517A-72	Sequence 72, Appl
40	73	70.2	16	11	US-09-825-517A-82	Sequence 82, Appl
41	72	69.2	16	11	US-09-825-517A-65	Sequence 65, Appl
42	72	69.2	16	11	US-09-825-517A-78	Sequence 78, Appl
43	72	69.2	16	11	US-09-825-517A-150	Sequence 150, App
44	71	68.3	16	11	US-09-825-517A-91	Sequence 91, Appl
45	71	68.3	16	11	US-09-825-517A-114	Sequence 114, App

ALIGNMENTS

RESULT 1
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
|||||
Db 1 DWVCEWLKMQWACNML 16

RESULT 2
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKQWACNML 16
| | | | | | | | | | | | | | | | | |
Db 1 DWCEWLKQWACNML 16

RESULT 3
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKQWACNML 16
| | | | | | | | | | | | | | | | | |
Db 1 DWCEWLKQWACNML 16

RESULT 4
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match 96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKQWACNML 16
| | | | | | | | | | | | | | | | | |
Db 1 DWCEWLKQWACNML 16

RESULT 5
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match 96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKQWACNML 16
| | | | | | | | | | | | | | | | | |
Db 1 DWCEWLKQWACNML 16

RESULT 6
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match          96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 7
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match          96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 8
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match          96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 9
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match          88.5%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.3e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWFCNAL 16

RESULT 10
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match          86.5%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.3e-05;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEFLKMQWACNVL 16
```

RESULT 11

US-09-825-517A-151
 ; Sequence 151, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 151
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-151

Query Match 86.5%; Score 90; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 2.3e-05;
 Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNML 16
 |||||
 Db 1 DWVCEFLKQWACNVL 16

RESULT 12

US-09-825-517A-101
 ; Sequence 101, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 101
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-101

Query Match 85.6%; Score 89; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.1e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNML 16
 |||||
 Db 1 DWVCEWSKQWSCNAL 16

RESULT 13

US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-130

Query Match 84.6%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 4.2e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNML 16
 |||||
 Db 1 DWVCEWFKQWFCNML 16

RESULT 14

US-09-825-517A-126
 ; Sequence 126, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 126
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-126

Query Match 82.7%; Score 86; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 7.8e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNML 16
 |||||
 Db 1 DWVCEWLKQWVCNVL 16

RESULT 15

US-09-825-517A-146
 ; Sequence 146, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
```

```
Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.8e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWVCEWLKQWACNML 16
        |||||
Db      1 DWVCEWLKQWFCNSL 16
```

```
Search completed: September 8, 2004, 15:58:36
Job time : 43.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-138
Perfect score: 104
Sequence: 1 DWVCEWLKMQWACNML 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	44.2	677	3	US-09-061-768A-4
2	46	44.2	677	4	US-09-764-246-4
3	45	43.3	771	4	US-09-621-976-5666
4	45	43.3	1129	4	US-09-252-991A-28552
5	44.5	42.8	491	1	US-09-640-305-4
6	44.5	42.8	491	1	US-08-360-673-4
7	44	42.3	89	4	US-09-621-976-7155
8	44	42.3	423	3	US-08-943-714-9
9	43	41.3	428	4	US-09-489-039A-12688
10	42	40.4	21	4	US-09-337-227C-27
11	42	40.4	21	4	US-09-723-251A-27
12	42	40.4	393	1	US-08-689-974-4
13	42	40.4	393	3	US-09-058-376-4
14	42	40.4	989	3	US-09-110-517-4
15	41	39.4	63	4	US-09-497-431-47
16	41	39.4	170	4	US-09-252-991A-21369
17	41	39.4	208	4	US-09-252-991A-32166
18	41	39.4	382	4	US-09-252-991A-25095
19	41	39.4	1956	3	US-08-843-417-10
20	41	39.4	1956	4	US-09-527-013-10
21	40.5	38.9	20	2	US-07-894-063A-6
22	40.5	38.9	30	1	US-08-262-037-16
23	40.5	38.9	38	1	US-08-262-037-95
24	40.5	38.9	47	1	US-08-262-037-96
25	40.5	38.9	106	3	US-08-444-818-24
26	40.5	38.9	176	3	US-08-444-818-28
27	40.5	38.9	360	4	US-08-850-328-4

28 40.5 38.9 516 3 US-08-867-611-6 Sequence 6, Appli
29 40.5 38.9 516 4 US-09-690-359-6 Sequence 6, Appli
30 40.5 38.9 516 5 PCT-US92-06965A-11 Sequence 11, Appli
31 40.5 38.9 798 3 US-08-867-611-36 Sequence 36, Appli
32 40.5 38.9 798 4 US-09-690-359-36 Sequence 36, Appli
33 40.5 38.9 859 3 US-08-444-818-30 Sequence 30, Appli
34 40.5 38.9 1040 4 US-10-104-966-9 Sequence 9, Appli
35 40.5 38.9 1786 3 US-08-444-818-54 Sequence 54, Appli
36 40.5 38.9 2261 3 US-08-444-818-66 Sequence 66, Appli
37 40.5 38.9 2436 3 US-08-444-818-75 Sequence 75, Appli
38 40.5 38.9 2772 3 US-08-444-818-89 Sequence 89, Appli
39 40.5 38.9 2894 2 US-08-466-975A-23 Sequence 23, Appli
40 40.5 38.9 2894 2 US-08-391-671A-23 Sequence 23, Appli
41 40.5 38.9 2894 3 US-08-467-902A-23 Sequence 23, Appli
42 40.5 38.9 2894 3 US-09-275-265-23 Sequence 23, Appli
43 40.5 38.9 2894 4 US-09-941-611-23 Sequence 23, Appli
44 40.5 38.9 2955 2 US-08-443-260-3 Sequence 3, Appli
45 40.5 38.9 2955 3 US-08-442-805A-3 Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061,768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: NONE
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
US-09-061-768A-4

Query Match 44.2%; Score 46; DB 3; Length 677;
Best Local Similarity 40.0%; Pred. No. 44;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWLKMQW 11


```

; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-360-673-4
;
Query Match 42.8%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 52;
Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;
;
Qy 1 DWVCEWL-----KNQWACN 14
Db 405 DYICNWLGNLAWTEKLEWRYN 425
;
RESULT 7
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7155
; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-621-976-7155
;
Query Match 42.3%; Score 44; DB 4; Length 89;
Best Local Similarity 45.5%; Pred. No. 10;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
;
Qy 1 DWVCEWLKQW 11
Db 45 DWLADWKKVGW 55
;
RESULT 8
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berka, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 6187578o No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

```

```

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 42.3%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWL 7
Db 340 DWICNWL 346

RESULT 9
US-09-489-039A-12688
; Sequence 12688, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/489,039A
; PRIOR FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.3%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

Qy 1 DWVCEWL--MQW 11
Db 110 NWIFWAKEAMQW 122

RESULT 10
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 42.3%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWL 7
Db 340 DWICNWL 346

RESULT 9
US-09-489-039A-12688
; Sequence 12688, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/489,039A
; PRIOR FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.3%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

Qy 1 DWVCEWL--MQW 11
Db 110 NWIFWAKEAMQW 122

RESULT 10
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
```

```

; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 11
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 12
US-08-689-974-4
; Sequence 4, Application US/08689974
; Patent No. 5776732
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
```

ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/689,974
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 459890
US-08-689-974-4

Query Match 40.4%; Score 42; DB 1; Length 393;
Best Local Similarity 41.2%; Pred. No. 97;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNML 16
| : ||| | : |
Db 360 WLAVFKMGSSWLCLL 376

RESULT 13
US-09-058-376-4
; Sequence 4, Application US/09058376
; Patent No. 6080841
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/058,376
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/689,974
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 459890
US-09-058-376-4

Query Match 40.4%; Score 42; DB 3; Length 393;
Best Local Similarity 41.2%; Pred. No. 97;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNML 16
| : ||| | : |
Db 360 WLAVFKMGSSWLCLL 376

RESULT 14
US-09-110-517-4
; Sequence 4, Application US/09110517A
; Patent No. 6248520
; GENERAL INFORMATION:
; APPLICANT: Roeder, Robert G
; APPLICANT: Fondell, Joseph D
; APPLICANT: Yuan, Chao X
; APPLICANT: Ito, Mitsuhiro
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING NUCLEAR HORMONE
; TITLE OF INVENTION: RECEPTOR COACTIVATORS AND USES THEREOF
; FILE REFERENCE: 600-1-224
; CURRENT APPLICATION NUMBER: US/09/110,517A
; CURRENT FILING DATE: 1998-07-06
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 989
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-110-517-4

Query Match 40.4%; Score 42; DB 3; Length 989;
Best Local Similarity 50.0%; Pred. No. 2.6e+02;
Matches 7; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWACNM 15
| : ||| | : |
Db 14 WKRWSDYQWAINM 27

RESULT 15
US-09-497-491-47
; Sequence 47, Application US/09497491
; Patent No. 6630573
; GENERAL INFORMATION:
; APPLICANT: Walker, Craig
; APPLICANT: Shetty, Reshma
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Hooper, David
; APPLICANT: Jacobsen, Richard
; APPLICANT: Steele, Doug
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: Tau-Conotoxin Peptides
; FILE REFERENCE: Tau-Conopeptides
; CURRENT APPLICATION NUMBER: US/09/497,491
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: US 60/118,642

; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Conus gloriamaris
US-09-497-491-47

Query Match 39.4%; Score 41; DB 4; Length 63;
Best Local Similarity 83.3%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEW 6
|||
Db 57 DWCCCEW 62

Search completed: September 8, 2004, 14:31:50
Job time : 13.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-137

Perfect score: 102

Sequence: 1 DWCEFFKSWQYCNIL 16

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubaa/PTCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubaa/PTCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	102	100.0	16	11	US-09-825-517A-137
2	94	92.2	16	11	US-09-825-517A-150
3	93	91.2	16	11	US-09-825-517A-75
4	92	90.2	16	11	US-09-825-517A-86
5	91	89.2	16	11	US-09-825-517A-59
6	91	89.2	16	11	US-09-825-517A-147
7	90	88.2	16	11	US-09-825-517A-67
8	89	87.3	16	11	US-09-825-517A-104
9	88	86.3	16	11	US-09-825-517A-76
10	88	86.3	16	11	US-09-825-517A-105
11	88	86.3	16	11	US-09-825-517A-139
12	87	85.3	16	11	US-09-825-517A-100
13	87	85.3	16	11	US-09-825-517A-130
14	86	84.3	16	11	US-09-825-517A-65
15	84	82.4	16	11	US-09-825-517A-56

16	84	82.4	16	11	US-09-825-517A-80	Sequence 80, Appl
17	83	81.4	16	11	US-09-825-517A-128	Sequence 128, App
18	82	80.4	16	11	US-09-825-517A-109	Sequence 109, App
19	82	80.4	16	11	US-09-825-517A-115	Sequence 115, App
20	82	80.4	16	11	US-09-825-517A-126	Sequence 126, App
21	82	80.4	16	11	US-09-825-517A-127	Sequence 127, App
22	81	79.4	16	11	US-09-825-517A-49	Sequence 49, Appl
23	81	79.4	16	11	US-09-825-517A-50	Sequence 50, Appl
24	81	79.4	16	11	US-09-825-517A-68	Sequence 68, Appl
25	81	79.4	16	11	US-09-825-517A-88	Sequence 88, Appl
26	81	79.4	16	11	US-09-825-517A-114	Sequence 114, App
27	81	79.4	16	11	US-09-825-517A-123	Sequence 123, App
28	81	79.4	16	11	US-09-825-517A-146	Sequence 146, App
29	81	79.4	16	11	US-09-825-517A-151	Sequence 151, App
30	80	78.4	16	11	US-09-825-517A-78	Sequence 116, App
31	80	78.4	16	11	US-09-825-517A-116	Sequence 116, App
32	80	78.4	16	11	US-09-825-517A-133	Sequence 133, App
33	80	78.4	16	11	US-09-825-517A-144	Sequence 144, App
34	79	77.5	16	11	US-09-825-517A-106	Sequence 106, App
35	79	77.5	16	11	US-09-825-517A-118	Sequence 118, App
36	79	77.5	16	11	US-09-825-517A-119	Sequence 119, App
37	78	76.5	16	11	US-09-825-517A-52	Sequence 52, Appl
38	78	76.5	16	11	US-09-825-517A-135	Sequence 135, App
39	77	75.5	16	11	US-09-825-517A-55	Sequence 55, Appl
40	77	75.5	16	11	US-09-825-517A-82	Sequence 82, Appl
41	77	75.5	16	11	US-09-825-517A-91	Sequence 91, Appl
42	77	75.5	16	11	US-09-825-517A-107	Sequence 107, App
43	77	75.5	16	11	US-09-825-517A-112	Sequence 112, App
44	77	75.5	16	11	US-09-825-517A-122	Sequence 122, App
45	77	75.5	16	11	US-09-825-517A-140	Sequence 140, App

ALIGNMENTS

RESULT 1
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match 100.0%; Score 102; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEFFKSWQYCNIL 16

Db 1 DWCEFFKSWQYCNIL 16

RESULT 2

US-09-825-517A-150

; Sequence 150, Application US/09825517A

; Publication No. US20030203415A1

; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-150

```

```

Query Match          92.2%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3.1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFFKQWYCNIL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEFFKQWFCNVL 16

```

```

RESULT 3
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
; US-09-825-517A-75

```

```

Query Match          91.2%; Score 93; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.2e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFFKQWYCNIL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEFFKQWFCNVL 16

```

```

RESULT 4
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
; US-09-825-517A-86

```

```

Query Match          90.2%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.8e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFFKQWYCNIL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEFFKQWFCNVL 16

```

```

RESULT 5
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
; US-09-825-517A-59

```

```

Query Match          89.2%; Score 91; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 7.9e-06;
Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFFKQWYCNIL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEFFKQWFCNVL 16

```

```

RESULT 6
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT

```



```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match      89.2%; Score 91; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.9e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWYCNIL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 7
US-09-825-517A-67
; Sequence 67, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67

Query Match      88.2%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWYCNIL 16
Db 1 DWVCEFFKQWNCNVL 16

RESULT 8
US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

Query Match      87.3%; Score 89; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.5e-05;
```

```
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWYCNIL 16
Db 1 DWVCEFFKQWMCNVL 16

RESULT 9
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match      86.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWYCNIL 16
Db 1 DWVCEFFKQWSCNVL 16

RESULT 10
US-09-825-517A-105
; Sequence 105, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-105

Query Match      86.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWYCNIL 16
Db 1 DWVCEFFKQWMCNVL 16
```

RESULT 11
 US-09-825-517A-139
 ; Sequence 139, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 139
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-139

Query Match 86.3%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 2e-05;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWYCNIL 16
 |||||:|:|:|:|
 Db 1 DWVCEYFKQWLCNIL 16

RESULT 12
 US-09-825-517A-100
 ; Sequence 100, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 100
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-100

Query Match 85.3%; Score 87; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 2.8e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWYCNIL 16
 |||||:|:|:|:|
 Db 1 DWVCELFKQWFCNIL 16

RESULT 13
 US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-130

Query Match 85.3%; Score 87; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 2.8e-05;
 Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWYCNIL 16
 |||||:|:|:|:|
 Db 1 DWVCEWFKQWFCNML 16

RESULT 14
 US-09-825-517A-65
 ; Sequence 65, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 65
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-65

Query Match 84.3%; Score 86; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.8e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWYCNIL 16
 |||||:|:|:|:|
 Db 1 DWVCELVKQWYCNIL 16

RESULT 15
 US-09-825-517A-56
 ; Sequence 56, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-56
```

```
Query Match      82.4%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 7.2e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
OY      1 DWVCEFFKSQWYCNIL 16
      ||||| ||:||||
Db      1 DWVCEMFKAQWFCNAL 16
```

```
Search completed: September 8, 2004, 15:58:36
Job time : 43.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-137
Perfect score: 102
Sequence: 1 DMVCFKFSQWYCNIL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	42.2	153	1	US-07-695-564-9
2	43	42.2	153	1	Sequence 9, Appli
3	43	42.2	272	4	US-08-241-387-9
4	42.5	41.7	322	1	Sequence 9, Appli
5	42.5	41.7	322	5	Sequence 6959, Ap
6	42.5	41.7	425	1	Sequence 36, Appl
7	42.5	41.7	425	1	Sequence 36, Appl
8	42.5	41.7	425	1	Sequence 69, Appl
9	42.5	41.7	425	1	Sequence 7, Appli
10	42.5	41.7	425	1	Sequence 13, Appl
11	42.5	41.7	425	1	Sequence 220, App
12	42.5	41.7	425	1	Sequence 7, Appli
13	42.5	41.7	425	1	Sequence 220, App
14	42.5	41.7	425	2	Sequence 220, App
15	42.5	41.7	425	2	Sequence 220, App
16	42.5	41.7	425	2	Sequence 3, Appli
17	42.5	41.7	425	2	Sequence 7, Appli
18	42.5	41.7	425	2	Sequence 7, Appli
19	42.5	41.7	425	2	Sequence 57, Appl
20	42.5	41.7	425	3	Sequence 13, Appl
21	42.5	41.7	425	3	Sequence 220, App
22	42.5	41.7	425	3	Sequence 7, Appli
23	42.5	41.7	425	3	Sequence 220, App
24	42.5	41.7	425	3	Sequence 220, App
25	42.5	41.7	425	3	Sequence 220, App
26	42.5	41.7	425	3	Sequence 7, Appli
27	40	39.2	21	4	Sequence 27, Appli

Sequence 27, Appli
Sequence 21, Appli
Sequence 15, Appli
Sequence 18, Appli
Sequence 6, Appli
Sequence 6, Appli
Sequence 9, Appli
Sequence 4, Appli
Sequence 3, Appli
Sequence 3, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 5, Appli

US-09-723-251A-27
US-09-292-225-21
US-09-292-225-15
US-09-292-225-18
US-08-676-169-6
US-09-063-431A-6
US-08-328-256-9
US-08-676-169-4
US-09-063-431A-4
US-08-676-169-3
US-09-063-431A-3
US-08-676-169-2
US-09-063-431A-2
US-08-414-526A-5
US-08-926-922-5
US-09-253-682-5
US-09-527-657-5
US-09-892-100-5

ALIGNMENTS

RESULT 1
US-07-695-564-9
; Sequence 9, Application US/07695564
; Patent No. 5310874
; GENERAL INFORMATION:
; APPLICANT: Tamura, Richard N.
; APPLICANT: Quaranta, Vito
; TITLE OF INVENTION: INTEGRIN ALPHA SUBUNIT CYTOPLASMIC
; TITLE OF INVENTION: DOMAIN POLYPEPTIDES, ANTIBODIES AND METHODS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Thomas Fitting
; STREET: 11300 Sorrento Valley Road, Suite 200
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/07/695,564
; FILING DATE: 19910503
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitting, Thomas
; REGISTRATION NUMBER: 34,163
; REFERENCE/DOCKET NUMBER: SCRO377P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-546-1555
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 153 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; FEATURE:
; NAME/KEY: Region
; LOCATION: 1..153
; OTHER INFORMATION: /note= "SEQ ID NO:9 is the 153
; OTHER INFORMATION: amino acid sequence predicted from the product
; OTHER INFORMATION: which results from amplification of the mouse

OTHER INFORMATION: ALPHA 3B cDNA with primers 2032/2033."
FEATURE:
NAME/KEY: Domain
LOCATION: 108..112
OTHER INFORMATION: /note= "The cytoplasmic sequence
OTHER INFORMATION: CDPFK begins at amino acid position 108."
US-07-695-564-9

Query Match 42.2%; Score 43; DB 1; Length 153;
Best Local Similarity 46.7%; Pred. No. 29;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCEFFKSQWYCNIL 16
|:|:|:|:|:|:|:
Db 106 WKCDFFKPTRYYRIM 120

RESULT 2
US-08-241-387-9
Sequence 9, Application US/08241387
Patent No. 5589570
GENERAL INFORMATION:
APPLICANT: Tamura, Richard N.
APPLICANT: Quaranta, Vito
TITLE OF INVENTION: INTEGRIN ALPHA SUBUNIT CYTOPLASMIC
TITLE OF INVENTION: DOMAIN POLYPEPTIDES, ANTIBODIES AND METHODS
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: The Scripps Research Institute
STREET: 10666 No. 5589570th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: CA
COUNTRY: US
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA: US/08/241.387
APPLICATION NUMBER: US/08/241.387
FILING DATE: 10-MAY-1994
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 07/695,564
FILING DATE: 03-MAY-1004
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: TSGI241.0D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312

INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 153 amino acids
TYPE: amino acid

TOPOLOGY: unknown
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ANTI-SENSE: NO

FRAGMENT TYPE: internal
FEATURE:
NAME/KEY: Region

LOCATION: 1..153
OTHER INFORMATION: /note= "SEQ ID NO:9 is the 153
OTHER INFORMATION: amino acid sequence predicted from the product
OTHER INFORMATION: which results from amplification of the mouse

FEATURE:
NAME/KEY: Domain
LOCATION: 108..112
OTHER INFORMATION: /note= "The cytoplasmic sequence
OTHER INFORMATION: CDPFK begins at amino acid position 108."

US-08-241-387-9

Query Match 42.2%; Score 43; DB 1; Length 153;
Best Local Similarity 46.7%; Pred. No. 29;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCEFFKSQWYCNIL 16
|:|:|:|:|:|:|:
Db 106 WKCDFFKPTRYYRIM 120

RESULT 3
US-09-328-352-6959
Sequence 6959, Application US/09328352
Patent No. 6562358
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER

TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 6959
LENGTH: 272
TYPE: PRT

ORGANISM: Acinetobacter baumannii
US-09-328-352-6959

Query Match 42.2%; Score 43; DB 4; Length 272;
Best Local Similarity 50.0%; Pred. No. 51;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEFFKSQWYC 13
|:|:|:|:|:|:|:
Db 212 WAEVFLDNQWYC 223

RESULT 4
US-08-118-270-36
Sequence 36, Application US/08118270
Patent No. 5508384
GENERAL INFORMATION:
APPLICANT: Murphy, Randall B.
APPLICANT: Schuster, David I.
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
NUMBER OF SEQUENCES: 348
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,270
FILING DATE: 09-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,236
FILING DATE: 10-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, Kevin G.
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: MURPHY=2A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528

```

; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 322 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-118-270-36

Query Match      41.7%; Score 42.5; DB 1; Length 322;
Best Local Similarity 35.0%; Pred. No. 71;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKQWYCN1 15
Db 62 DWQFGSELCRFVTAIFYCNM 81

RESULT 5
PCT-US93-08528-36
; Sequence 36, Application PC/TUS9308528
; GENERAL INFORMATION:
; APPLICANT: New York University
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
; TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
; NUMBER OF SEQUENCES: 348
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/08528
; FILING DATE: 09-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/943,236
; FILING DATE: 10-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, Kevin G.
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: MURPHY=2 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 322 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US93-08528-36

Query Match      41.7%; Score 42.5; DB 5; Length 322;
Best Local Similarity 35.0%; Pred. No. 71;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKQWYCN1 15
Db 62 DWQFGSELCRFVTAIFYCNM 81

RESULT 6
US-07-657-769B-69

```

```

; Sequence 69, Application US/07657769B
; Patent No. 5256766
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; TITLE OF INVENTION: RECOMBINANT RECEPTOR AND RELATED
; TITLE OF INVENTION: PHARMACEUTICALS
; NUMBER OF SEQUENCES: 69
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: IRELL & MANELLA
; STREET: 545 MIDDLEFIELD ROAD, SUITE 200
; CITY: MENLO PARK
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/657,769B
; FILING DATE: 19910219
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 2000-0502.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-327-7250
; TELEFAX: 415-327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 69:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 425 amino acids
;   TYPE: AMINO ACID
;   TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-657-769B-69

Query Match      41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKQWYCN1 15
Db 167 DWQFGSELCRFVTAIFYCNM 186

RESULT 7
US-08-097-938-7
; Sequence 7, Application US/08097938
; Patent No. 5629174
; GENERAL INFORMATION:
; APPLICANT: SUNDELIN, JOHAN
; APPLICANT: SCARBOROUGH, ROBERT M.
; TITLE OF INVENTION: RECOMBINANT C140 RECEPTOR AND ITS
; TITLE OF INVENTION: AGONISTS AND ANTAGONISTS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Ave. N.W., Ste. 5500
; CITY: Washington, D.C.
; COUNTRY: USA
; ZIP: 20006-1812
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/097,938
; FILING DATE: 26-JUL-1993
; CLASSIFICATION: 435

```

ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29, 959
REFERENCE/DOCKET NUMBER: 22803-20006.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-097-938-7

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKSQWYCN 15
||| :|| :|| :
Db 167 DWOFGSELCREVTTAAFYCNM 186

RESULT 8
US-08-313-553-13
; Sequence 13, Application US/08313553
; Patent No. 5641650
; GENERAL INFORMATION:
; APPLICANT: TURNER, George J.
; APPLICANT: BETLACH, Mary C.
; TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS POLYPEPTIDES
; TITLE OF INVENTION: IN HALOBACTERIA
; NUMBER OF SEQUENCES: 15

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

```

QY      1  DW-----VCEFFKSQWYCNM 15
      ||| : || : ||| :
Db      161  DWQFGSELCRFVTAAYFCNM 180

RESULT 9
US-07-789-184-220
; Sequence 220, Application US/07789184
; Patent No. 5688768
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; APPLICANT: SCARBOROUGH, ROBERT M.
; TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
; TITLE OF INVENTION: RELATED PHARMACEUTICALS
; NUMBER OF SEQUENCES: 223
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/789,184
; FILING DATE: 19911107
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-789-184-220

```

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7: Conservative 4: Mismatches 4: Indels

QY
1 DW-----VCEFFKSQWYCNI 15
||| : | : ||:
167 DWDFGSEICRFVTAAFYCNM 186

RESULT 10
US-08-476-000-7
US-08-476-000-7
Sequence 7, Application US/08476000
Patent No. 5716789
GENERAL INFORMATION:
APPLICANT: SUNDELIN, JOHAN
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: RECOMBINANT C140 RECEPTOR, ITS AGONISTS
TITLE OF INVENTION: AND ANTAGONISTS, AND NUCLEIC ACIDS ENCODING THE RECEPTOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 Pennsylvania Ave. N.W., Ste. 5500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20006-1812

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,000
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/390,301
FILING DATE: 25-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: ADLER, REID G.
REGISTRATION NUMBER: 30,988
REFERENCE/DOCKET NUMBER: 2803-0006.20
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-476-000-7

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKSQWYCN 15
||| : : : : :
Db 167 DWQFGSELRCRFVTAAFYCNM 186

RESULT 11
US-08-475-263-220
Sequence 220, Application US/08475263
Patent No. 5759994
GENERAL INFORMATION:
APPLICANT: COUGHLIN, SHAUN R.
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
TITLE OF INVENTION: RELATED PHARMACEUTICALS
NUMBER OF SEQUENCES: 223
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 Pennsylvania Ave., NW
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,263
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 22000-20502.03
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 220:
SEQUENCE CHARACTERISTICS:

LENGTH: 425 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-475-263-220

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKSQWYCN 15
||| : : : : :
Db 167 DWQFGSELRCRFVTAAFYCNM 186

RESULT 12
US-08-472-840-7
Sequence 7, Application US/08472840
Patent No. 5763575
GENERAL INFORMATION:
APPLICANT: SUNDELIN, JOHAN
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: RECOMBINANT C140 RECEPTOR, ITS AGONISTS
TITLE OF INVENTION: AND ANTAGONISTS, AND NUCLEIC ACIDS ENCODING THE RECEPTOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 Pennsylvania Ave. N.W., Ste. 5500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/472,840
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/390,301
FILING DATE: 25-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: ADLER, REID G.
REGISTRATION NUMBER: 30,988
REFERENCE/DOCKET NUMBER: 2803-0006.20
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-472-840-7

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKSQWYCN 15
||| : : : : :
Db 167 DWQFGSELRCRFVTAAFYCNM 186

RESULT 13
US-08-485-886-220
Sequence 220, Application US/08485886
Patent No. 5798248

```

/ APPLICATION NUMBER: US/08/477,362
/ FILING DATE: 07-JUN-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/789,184
/ FILING DATE: 07-NOV-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: MURASHIGE, KATE H.
/ REGISTRATION NUMBER: 29,959
/ REFERENCE/DOCKET NUMBER: 22000-20502.20
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (415) 813-5600
/ TELEFAX: (415) 494-0792
/ TELEX: 34-0154
/ INFORMATION FOR SEQ ID NO: 220:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 425 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-477-362-220

Query Match 41.7%; Score 42.5; DB 2; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 3

QY 1 DW-----VCEFFKSQWYCN1 15
||| :||| :||| :||| :
Db 167 DWQFSGELCFVTAAFYCNM 186

RESULT 15
US-08-477-134-220
; Sequence 220, Application US/08477134
; Patent No. 5856448
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; APPLICANT: SCARBOROUGH, ROBERT M.
; TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
; TITLE OF INVENTION: RELATED PHARMACEUTICALS
; NUMBER OF SEQUENCES: 223
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FORSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,134
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,184
; FILING DATE: 07-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

```

Search completed: September 8, 2004, 14:31:50
Job time : 14.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-136

Perfect score: 104
Sequence: 1 DWVCNLFKNQWFCDDQ 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	100.0	16	11	US-09-825-517A-136
2	103	99.0	16	11	US-09-825-517A-39
3	100	96.2	16	11	US-09-825-517A-73
4	100	96.2	16	11	US-09-825-517A-131
5	97	93.3	16	11	US-09-825-517A-38
6	97	93.3	16	11	US-09-825-517A-42
7	97	93.3	16	11	US-09-825-517A-43
8	97	93.3	16	11	US-09-825-517A-129
9	96	92.3	16	11	US-09-825-517A-77
10	96	92.3	16	11	US-09-825-517A-99
11	95	91.3	16	11	US-09-825-517A-53
12	95	91.3	16	11	US-09-825-517A-81
13	95	91.3	16	11	US-09-825-517A-83
14	94	90.4	16	11	US-09-825-517A-37
15	94	90.4	16	11	US-09-825-517A-52

16	94	90.4	16	11	US-09-825-517A-58	Sequence 58, Appl
17	94	90.4	16	11	US-09-825-517A-62	Sequence 62, Appl
18	94	90.4	16	11	US-09-825-517A-74	Sequence 74, Appl
19	94	90.4	16	11	US-09-825-517A-120	Sequence 120, Appl
20	94	90.4	16	11	US-09-825-517A-124	Sequence 124, Appl
21	94	90.4	16	11	US-09-825-517A-145	Sequence 145, Appl
22	93	89.4	16	11	US-09-825-517A-40	Sequence 40, Appl
23	93	89.4	16	11	US-09-825-517A-45	Sequence 45, Appl
24	93	89.4	16	11	US-09-825-517A-47	Sequence 47, Appl
25	93	89.4	16	11	US-09-825-517A-48	Sequence 48, Appl
26	93	89.4	16	11	US-09-825-517A-57	Sequence 57, Appl
27	93	89.4	16	11	US-09-825-517A-121	Sequence 121, Appl
28	93	89.4	16	11	US-09-825-517A-134	Sequence 134, Appl
29	92	88.5	16	11	US-09-825-517A-50	Sequence 50, Appl
30	92	88.5	16	11	US-09-825-517A-89	Sequence 89, Appl
31	91	87.5	16	11	US-09-825-517A-46	Sequence 46, Appl
32	91	87.5	16	11	US-09-825-517A-132	Sequence 132, Appl
33	90	86.5	16	11	US-09-825-517A-71	Sequence 71, Appl
34	90	86.5	16	11	US-09-825-517A-108	Sequence 108, Appl
35	89	85.6	16	11	US-09-825-517A-61	Sequence 61, Appl
36	89	85.6	16	11	US-09-825-517A-64	Sequence 64, Appl
37	89	85.6	16	11	US-09-825-517A-66	Sequence 66, Appl
38	89	85.6	16	11	US-09-825-517A-69	Sequence 69, Appl
39	89	85.6	16	11	US-09-825-517A-84	Sequence 84, Appl
40	89	85.6	16	11	US-09-825-517A-98	Sequence 98, Appl
41	89	85.6	16	11	US-09-825-517A-119	Sequence 119, Appl
42	89	85.6	16	11	US-09-825-517A-128	Sequence 128, Appl
43	87	83.7	16	11	US-09-825-517A-41	Sequence 41, Appl
44	87	83.7	16	11	US-09-825-517A-79	Sequence 79, Appl
45	87	83.7	16	11	US-09-825-517A-92	Sequence 92, Appl

ALIGNMENTS

RESULT 1
US-09-825-517A-136
; Sequence 136, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 136
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-136

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.8e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDQ 16

RESULT 2
US-09-825-517A-39
; Sequence 39, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-39

Query Match          99.0%; Score 103; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.1e-08;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWICNLFKNQWFCDDQ 16

RESULT 3
US-09-825-517A-73
; Sequence 73, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-73

Query Match          96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 2.1e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDQ 16

RESULT 4
US-09-825-517A-131
; Sequence 131, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-131

Query Match          96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.1e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWICNLFKNQWFCDDQ 16

RESULT 5
US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-38

Query Match          93.3%; Score 97; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.6e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDQ 16

RESULT 6
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42

Query Match          93.3%; Score 97; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.6e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 7
US-09-825-517A-43
; Sequence 43, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-43

Query Match          93.3%; Score 97; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.6e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDQ 16

RESULT 8
US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129

Query Match          93.3%; Score 97; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.6e-07;
```

```
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 9
US-09-825-517A-77
; Sequence 77, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-77

Query Match          92.3%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 7.7e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDSL 16

RESULT 10
US-09-825-517A-99
; Sequence 99, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 99
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-99

Query Match          92.3%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 7.7e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
Db 1 NWVCNLFKNQWFCDEM 16
```

```
RESULT 11
US-09-825-517A-53
; Sequence 53, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-53

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.1e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 15
Db 1 DWVCNLFKNQWFCDK 15

RESULT 12
US-09-825-517A-81
; Sequence 81, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-81

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDL 16

RESULT 13
US-09-825-517A-83
; Sequence 83, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
```

```
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 83
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-83

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDL 16

RESULT 14
US-09-825-517A-37
; Sequence 37, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-37

Query Match          90.4%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.5e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDM 16

RESULT 15
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
```


; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match 90.4%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred.No. 1.5e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCD 14
|||
Db 1 DWVCNLFKNQWFCD 14

Search completed: September 8, 2004, 15:58:36
Job time : 44.85 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-136
Perfect score: 104
Sequence: 1 DNVCNLFKNQWFCDDQM 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/prodata/2/iaa/5A COMB.pep.*
- 2: /cgn2_6/prodata/2/iaa/5B COMB.pep.*
- 3: /cgn2_6/prodata/2/iaa/6A COMB.pep.*
- 4: /cgn2_6/prodata/2/iaa/6B COMB.pep.*
- 5: /cgn2_6/prodata/2/iaa/6C COMB.pep.*
- 6: /cgn2_6/prodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	44.2	2474	4	US-08-265-967C-3
2	46	44.2	2474	4	US-08-305-790B-4
3	45	43.3	478	4	US-09-137-223A-2
4	45	43.3	480	2	US-08-328-488-8
5	45	43.3	480	4	US-09-299-689A-8
6	45	43.3	480	4	US-09-702-705-336
7	45	43.3	480	4	US-09-736-457-336
8	45	43.3	480	4	US-09-614-124B-336
9	45	43.3	480	4	US-09-671-325-336
10	45	43.3	480	4	US-09-589-184-336
11	44	42.3	21	4	US-09-337-227C-27
12	44	42.3	21	4	US-09-723-251A-27
13	44	42.3	215	3	US-09-131-028A-3
14	44	42.3	215	3	US-09-131-028A-13
15	44	42.3	612	4	US-09-352-991A-17516
16	43.5	41.8	190	1	US-08-816-241-1
17	43.5	41.8	190	3	US-09-128-395-1
18	42	40.4	326	2	US-08-671-978A-7
19	41	39.4	582	3	US-08-194-560-2
20	41	39.4	3033	1	US-07-925-695-8
21	41	39.4	3033	1	US-07-925-695-9
22	40.5	38.9	989	2	US-08-070-301-14
23	40	38.5	51	4	US-09-740-510-2
24	40	38.5	109	2	US-08-527-044-2
25	40	38.5	109	3	US-09-013-780-2
26	40	38.5	3033	1	US-07-925-695-5
27	39.5	38.0	113	4	US-09-530-903C-4

28 39.5 38.0 286 4 US-09-328-352-5022 Sequence 5022, Ap
29 39 37.5 80 4 US-09-673-395A-447 Sequence 417, App
30 39 37.5 123 1 US-08-530-010-25 Sequence 25, Appl
31 39 37.5 123 2 US-08-484-101B-25 Sequence 25, Appl
32 39 37.5 123 3 US-08-714-524D-25 Sequence 25, Appl
33 39 37.5 131 2 US-08-834-655-9 Sequence 9, Appl
34 39 37.5 131 3 US-08-834-033A-10 Sequence 10, Appl
35 39 37.5 131 3 US-09-363-574-9 Sequence 9, Appl
36 39 37.5 131 4 US-09-363-526-9 Sequence 9, Appl
37 39 37.5 219 4 US-09-439-261-20 Sequence 20, Appl
38 39 37.5 219 4 US-09-227-613-19 Sequence 19, Appl
39 39 37.5 240 2 US-08-114-555A-8 Sequence 8, Appl
40 39 37.5 240 3 US-08-559-397A-14 Sequence 14, Appl
41 39 37.5 287 4 US-09-439-261-13 Sequence 13, Appl
42 39 37.5 287 4 US-09-227-613-14 Sequence 14, Appl
43 39 37.5 288 4 US-09-439-261-14 Sequence 14, Appl
44 39 37.5 288 4 US-09-439-261-16 Sequence 16, Appl
45 39 37.5 288 4 US-09-439-261-18 Sequence 18, Appl

ALIGNMENTS

RESULT 1
US-08-265-967C-3
; Sequence 3, Application US/08265967C
; Patent No. 6476200
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDMUNT-BROMAGE, HEDIYE
; APPLICANT: LUI, MARY
; APPLICANT: TEMPT, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/265,967C
; FILING DATE: 27-JUN-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.46363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BBMB UT
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
; US-08-265-967C-3

Query Match 44.2%; Score 46; DB 4; Length 2474;
Best Local Similarity 54.5%; Pred.No. 2.5e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

```
Qy      5 NLPKNWFCDQ 15
Db      1223 NILKNWYCSQ 1233

RESULT 2
US-08-305-790B-4
; Sequence 4, Application US/08305790B
; Patent No. 6492106
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUMENT-BROMAGE, HEDIVE
; APPLICANT: LUI, MARY
; APPLICANT: TEMEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/305,790B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/265,967
; FILING DATE: 27-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.47225
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BMB UT
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
US-08-305-790B-4

Query Match      44.2%; Score 46; DB 4; Length 2474;
Best Local Similarity 54.5%; Pred. No. 2.5e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy      5 NLPKNWFCDQ 15
Db      1223 NILKNWYCSQ 1233

RESULT 3
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
```

```
; TITLE OF INVENTION: ZGCL-1
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match      43.3%; Score 45; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 62;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy      1 DWCVNLFKNQWF 12
Db      322 EWLSSVYKQQWF 333

RESULT 4
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-08-828-488-8

Query Match      43.3%; Score 45; DB 2; Length 480;
```



```
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27
```

```
Query Match 42.3%; Score 44; DB 4; Length 21;
Best Local Similarity 42.9%; Pred. No. 3.3;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;
```

```
Qy 2 WVCNLFKNQWFCDO 15
Db 3 WVCAGPLQWLCEK 16
```

```
RESULT 13
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Young
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-3
```

```
Query Match 42.3%; Score 44; DB 3; Length 215;
Best Local Similarity 46.2%; Pred. No. 3.7;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
```

```
Qy 2 WVCNLFKNQWFCDO 14
Db 12 WFCGLRGNEFFCE 24
```

```
RESULT 14
US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Young
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
```

```
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13
```

```
Query Match 42.3%; Score 44; DB 3; Length 215;
Best Local Similarity 46.2%; Pred. No. 3.7;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
```

```
Qy 2 WVCNLFKNQWFCDO 14
Db 12 WFCGLRGNEFFCE 24
```

```
RESULT 15
US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516
```

```
Query Match 42.3%; Score 44; DB 4; Length 612;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 2 WVCNLFKN 9
Db 54 WICNLFAN 61
```

```
Search completed: September 8, 2004, 14:31:49
Job time : 14.3 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-135

Perfect score: 99

Sequence: 1 DWCEFDKLOWVCNVL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	99	100.0	16	11	US-09-825-517A-135
2	83	83.8	16	11	US-09-825-517A-49
3	83	83.8	16	11	US-09-825-517A-118
4	83	83.8	16	11	US-09-825-517A-133
5	83	83.8	16	11	US-09-825-517A-151
6	82	82.8	16	11	US-09-825-517A-107
7	80	80.8	16	11	US-09-825-517A-80
8	80	80.8	16	11	US-09-825-517A-88
9	79	79.8	16	11	US-09-825-517A-75
10	79	79.8	16	11	US-09-825-517A-104
11	79	79.8	16	11	US-09-825-517A-114
12	79	79.8	16	11	US-09-825-517A-147
13	78	78.8	16	11	US-09-825-517A-125
14	78	78.8	16	11	US-09-825-517A-137
15	78	78.8	16	11	US-09-825-517A-142

```

16 77 77.8 16 11 US-09-825-517A-82 Sequence 82, App1
17 77 77.8 16 11 US-09-825-517A-112 Sequence 112, App
18 77 77.8 16 11 US-09-825-517A-122 Sequence 122, App
19 77 77.8 16 11 US-09-825-517A-140 Sequence 140, App
20 76 76.8 16 11 US-09-825-517A-67 Sequence 67, App1
21 76 76.8 16 11 US-09-825-517A-76 Sequence 76, App1
22 76 76.8 16 11 US-09-825-517A-86 Sequence 86, App1
23 76 76.8 16 11 US-09-825-517A-101 Sequence 101, App
24 76 76.8 16 11 US-09-825-517A-139 Sequence 139, App
25 76 76.8 16 11 US-09-825-517A-150 Sequence 150, App
26 75 75.8 16 11 US-09-825-517A-54 Sequence 54, App1
27 75 75.8 16 11 US-09-825-517A-59 Sequence 59, App1
28 75 75.8 16 11 US-09-825-517A-60 Sequence 60, App1
29 75 75.8 16 11 US-09-825-517A-105 Sequence 105, App
30 75 75.8 16 11 US-09-825-517A-138 Sequence 138, App
31 75 75.8 16 11 US-09-825-517A-143 Sequence 143, App
32 74 74.7 16 11 US-09-825-517A-106 Sequence 106, App
33 74 74.7 16 11 US-09-825-517A-115 Sequence 115, App
34 73 73.7 16 11 US-09-825-517A-65 Sequence 65, App1
35 73 73.7 16 11 US-09-825-517A-141 Sequence 141, App
36 72 72.7 16 11 US-09-825-517A-78 Sequence 78, App1
37 72 72.7 16 11 US-09-825-517A-91 Sequence 91, App1
38 72 72.7 16 11 US-09-825-517A-130 Sequence 130, App
39 71 71.7 16 11 US-09-825-517A-70 Sequence 70, App1
40 71 71.7 16 11 US-09-825-517A-100 Sequence 100, App
41 71 71.7 16 11 US-09-825-517A-127 Sequence 127, App
42 70 70.7 16 11 US-09-825-517A-18 Sequence 18, App1
43 70 70.7 16 11 US-09-825-517A-23 Sequence 23, App1
44 70 70.7 16 11 US-09-825-517A-33 Sequence 33, App1
45 70 70.7 16 11 US-09-825-517A-56 Sequence 56, App1

```

ALIGNMENTS

```

RESULT 1
US-09-825-517A-135
; Sequence 135, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 135
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-135

```

```

Query Match 100.0%; Score 99; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.le-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWCEFDKLOWVCNVL 16
    |||||
Db 1 DWCEFDKLOWVCNVL 16
    |||||

```

```

RESULT 2
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

```

```

Query Match      83.8%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWCEFDKLOWVCNVL 16
   |||||:|||||
DB 1 DWCEFLKQWQACNVL 16

```

```

RESULT 3
US-09-825-517A-118
; Sequence 118, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 118
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-118

```

```

Query Match      83.8%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWCEFDKLOWVCNVL 16
   |||||:|||||
DB 1 DWCEFEKQWQTCNVL 16

```

```

RESULT 4
US-09-825-517A-133
; Sequence 133, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 133
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-133

```

```

Query Match      83.8%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWCEFDKLOWVCNVL 16
   |||||:|||||
DB 1 DWCEFDKQWQNCNIL 16

```

```

RESULT 5
US-09-825-517A-151
; Sequence 151, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 151
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-151

```

```

Query Match      83.8%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWCEFDKLOWVCNVL 16
   |||||:|||||
DB 1 DWCEFLKQWQACNVL 16

```

```

RESULT 6
US-09-825-517A-107
; Sequence 107, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 16
; TYPE: PRT

```

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-107

Query Match      82.8%; Score 82; DB 11; Length 16;
Best Local Similarity 68.8%; Pred. No. 3.2e-05;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEYAKQWICNVL 16

RESULT 7
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match      80.8%; Score 80; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 6.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEFIKQWMCNVL 16

RESULT 8
US-09-825-517A-88
; Sequence 88, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 88
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-88

Query Match      80.8%; Score 80; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 6.3e-05;

Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEYDKQWMCNVL 16

Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEYDKQWMCNVL 16

RESULT 9
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match      79.8%; Score 79; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.8e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 10
US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

Query Match      79.8%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 8.8e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEFFKQWMCNVL 16

```

```

RESULT 11
US-09-825-517A-114
; Sequence 114, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 114
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-114

Query Match          79.8%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 8.8e-05;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
   ||||| |:|||||
Db 1 DWVCEFSKVQWYCNPL 16

RESULT 12
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match          79.8%; Score 79; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.8e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
   ||||| |:|||||
Db 1 DWVCEFIKQWFCNVL 16

RESULT 13
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match          78.8%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00012;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
   ||||| |:|||||
Db 1 DWVCEWLKQWACNVL 16

RESULT 14
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match          78.8%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00012;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
   ||||| |:|||||
Db 1 DWVCEFFKSQWYCNIL 16

RESULT 15
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```